

Oracle Private Cloud Appliance Licensing Information User Manual



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Oracle Private Cloud Appliance Licensing Information User Manual,
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Preface

This publication is part of the customer documentation set for Oracle Private Cloud Appliance Release 3.0. Note that the documentation follows the release numbering scheme of the appliance software, not the hardware on which it is installed. All Oracle Private Cloud Appliance product documentation is available at <https://docs.oracle.com/en/engineered-systems/private-cloud-appliance/index.html>.

Oracle Private Cloud Appliance Release 3.x is a flexible general purpose Infrastructure as a Service solution, engineered for optimal performance and compatibility with Oracle Cloud Infrastructure. It allows customers to consume the core cloud services from the safety of their own network, behind their own firewall.

Audience

This documentation is intended for owners, administrators and operators of Oracle Private Cloud Appliance. It provides architectural and technical background information about the engineered system components and services, as well as instructions for installation, administration, monitoring and usage.

Oracle Private Cloud Appliance has two strictly separated operating areas, known as enclaves. The Compute Enclave offers a practically identical experience to Oracle Cloud Infrastructure: It allows users to build, configure and manage cloud workloads using compute instances and their associated cloud resources. The Service Enclave is where privileged administrators configure and manage the appliance infrastructure that provides the foundation for the cloud environment. The target audiences of these enclaves are distinct groups of users and administrators. Each enclave also provides its own separate interfaces.

It is assumed that readers have experience with system administration, network and storage configuration, and are familiar with virtualization technologies. Depending on the types of workloads deployed on the system, it is advisable to have a general understanding of container orchestration, and UNIX and Microsoft Windows operating systems.

Feedback

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The following text conventions are used in this document:

Convention	Meaning
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Convention	Meaning
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, code in examples, text that appears on the screen, or text that you enter.
\$ prompt	The dollar sign (\$) prompt indicates a command run as a non-root user.
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1

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2

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amqp-client

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Ansible

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antlr4-python3-runtime

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```

=====
4th Party Dependencies Outline:
=====
glibc-2.17-317.0.1.e17.x86_64
 * /usr/share/doc/glibc-2.17/README
 * /usr/share/doc/glibc-2.17/COPYING
 * /usr/share/doc/glibc-2.17/COPYING.LIB
 * /usr/share/doc/glibc-2.17/LICENSES
ncurses-libs-5.9-14.20130511.e17_4.x86_64
 * /usr/share/doc/ncurses-5.9/README
zlib-1.2.7-18.e17.x86_64
 * /usr/share/doc/zlib-1.2.7/README
=====
glibc-2.17-317.0.1.e17.x86_64
=====
/usr/share/doc/glibc-2.17/README
-----

```

This directory contains the sources of the GNU C Library. See the file "version.h" for what release version you have. The GNU C Library is the standard system C library for all GNU systems, and is an important part of what makes up a GNU system. It provides the system API for all programs written in C and C-compatible languages such as C++ and Objective C; the runtime facilities of other programming languages use the C library to access the underlying operating system. In GNU/Linux systems, the C library works with the Linux kernel to implement the operating system behavior seen by user applications. In GNU/Hurd systems, it works with a microkernel and Hurd servers. The GNU C Library implements much of the POSIX.1 functionality in the GNU/Hurd system, using configurations i[34567]86-*-gnu. The current GNU/Hurd support requires out-of-tree patches that will eventually be incorporated into an official GNU C Library release. When working with Linux kernels, this version of the GNU C Library requires Linux kernel version 2.6.16 or later. Also note that the shared version of the libgcc_s library must be installed for the pthread library to work correctly. The GNU C Library supports these configurations for using Linux kernels:

```

i[4567]86-*-linux-gnu
x86_64-*-linux-gnu      Can build either x86_64 or x32
powerpc-*-linux-gnu     Hardware floating point required
powerpc64-*-linux-gnu
s390-*-linux-gnu
s390x-*-linux-gnu

```

```
sh[34]*-*-linux-gnu
sparc*-*-linux-gnu
sparc64*-*-linux-gnu
```

The code for other CPU configurations supported by volunteers outside of the core glibc maintenance effort is contained in the 'ports' add-on, located in the 'ports' subdirectory of the source tree.

```
aarch64*-*-linux-gnu
alpha*-*-linux-gnu
am33*-*-linux-gnu    Not currently functional
arm*-*-linux-gnueabi
hppa*-*-linux-gnu    Not currently functional without patches.
ia64*-*-linux-gnu
m68k*-*-linux-gnu
mips*-*-linux-gnu
mips64*-*-linux-gnu
powerpc*-*-linux-gnu  Software floating point (--without-fp)
tilegx*-*-linux-gnu
tilepro*-*-linux-gnu
```

If you are interested in doing a port, please contact the glibc maintainers; see <http://www.gnu.org/software/libc/> for more information.

See the file INSTALL to find out how to configure, build, and install the GNU C Library. You might also consider reading the WWW pages for the C library at <http://www.gnu.org/software/libc/>.

The GNU C Library is (almost) completely documented by the Texinfo manual found in the 'manual/' subdirectory. The manual is still being updated and contains some known errors and omissions; we regret that we do not have the resources to work on the manual as much as we would like. For corrections to the manual, please file a bug in the 'manual' component, following the bug-reporting instructions below. Please be sure to check the manual in the current development sources to see if your problem has already been corrected.

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```
-----
/usr/share/doc/glibc-2.17/COPYING
-----
```

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github.com/go-logr/logr
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/swag
github.com/golang/groupcache
github.com/google/btree
github.com/google/gnostic
github.com/google/gofuzz
github.com/moby/spdystream
github.com/modern-go/concurrent
github.com/modern-go/reflect2
```

```
gopkg.in/yaml.v2
k8s.io/api
k8s.io/apimachinery
k8s.io/klog/v2
k8s.io/kube-openapi
k8s.io/utils
sigs.k8s.io/structured-merge-diff/v4
```

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google.golang.org/protobuf

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github.com/gogo/protobuf

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github.com/google/go-cmp

github.com/google/uuid

github.com/imdario/mergo

github.com/spf13/pflag

golang.org/x/net

golang.org/x/oauth2

golang.org/x/sys

golang.org/x/term

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cryptography

Cryptography 3.2.1-1.0.1

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pycparser -- A C parser in Python

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Protocol Buffer extensions for the Go language (golang) - Apache 2.0

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11. liburing
12. Nghttp2
13. nlohmann JSON
14. spdlog
15. yaml-cpp
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17. gperftools
18. libevent
19. Protocol Buffers
20. QUICHE
21. RE2
22. upb
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25. zlib-ng

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github.com/google/gofuzz
github.com/googleapis/gnostic
github.com/kubernetes-csi/csi-lib-utils
github.com/kubernetes-csi/external-snapshotter/client/v4
github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/spf13/cobra
google.golang.org/genproto
google.golang.org/grpc
gopkg.in/yaml.v2
k8s.io/api
k8s.io/apimachinery
k8s.io/apiserver
k8s.io/client-go
k8s.io/component-base
k8s.io/component-helpers
k8s.io/csi-translation-lib
k8s.io/klog/v2
k8s.io/kube-openapi
k8s.io/utils
sigs.k8s.io/controller-runtime
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github.com/gogo/protobuf
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github.com/miekg/dns
github.com/spf13/pflag
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backport from python3 Lib/test/support.py

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setuptools 41.2.0

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## Haproxy

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----- Top-level license -----
HAPROXY's license - 2006/06/15
Historically, haproxy has been covered by GPL version 2. However, an issue
appeared in GPL which will prevent external non-GPL code from being built
using the headers provided with haproxy. My long-term goal is to build a core
system able to load external modules to support specific application protocols.
Since some protocols are found in rare environments (finance, industry, ...),
some of them might be accessible only after signing an NDA. Enforcing GPL on
such modules would only prevent them from ever being implemented, while not
providing anything useful to ordinary users.
For this reason, I *want* to be able to support binary only external modules
when needed, with a GPL core and GPL modules for standard protocols, so that
people fixing bugs don't keep them secretly to try to stay over competition.
The solution was then to apply the LGPL license to the exportable include
files, while keeping the GPL for all the rest. This way, it still is mandatory
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Willy Tarreau - w@1wt.eu
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----- (separator) -----
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```

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file.\n\npackage), uintptr(unsafe.Pointer(p1)), 0)\n\tif e1 != 0 {\n\t\tterr =
errnoErr(e1)\n\t}\n\treturn\n}\n\n// THIS FILE IS GENERATED BY THE COMMAND AT
THE TOP; DO NOT EDIT\nfunc Sync() (err error) {\n\t_, _, e1 := Syscall
= 0x10\n\tMOVEFILE_FAIL_IF_NOT")
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github.com/go-openapi/jsonreference
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github.com/xeipuuv/gojsonreference
github.com/xeipuuv/gojsonschema
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gopkg.in/yaml.v2
helm.sh/helm/v3
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k8s.io/apiextensions-apiserver
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k8s.io/klog/v2
k8s.io/kube-openapi
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[github.com/golang/protobuf](https://github.com/golang/protobuf)

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[golang.org/x/time](https://golang.org/x/time)

[google.golang.org/protobuf](https://google.golang.org/protobuf)

[gopkg.in/inf.v0](https://github.com/gopkg.in/inf.v0)

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github.com/MakeNowJust/heredoc
github.com/Masterminds/semver/v3
github.com/Masterminds/sprig/v3
github.com/Masterminds/squirrel
github.com/asaskevich/govalidator
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importlib_resources

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jackson-core

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Jackson JSON processor

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jackson-jaxrs-base

jackson-jaxrs-base v2.10.2

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jackson-module-jaxb-annotations

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Jakarta Bean Validation API

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Jakarta JSON Binding API (JSON-B)

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```
-----
```

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petit-dom - v0.2.2

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RequireJS i18n 2.0.2

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select2.js

<https://github.com/select2/select2>

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ES6-Promise

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jQuery UI - v1.12.1 - 2015-03-18

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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jQuery JavaScript Library v3.5.1

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RequireJS text 2.0.15
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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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Knockout JavaScript library v3.5.1

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2.0]
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1.0]
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```

```
2.0]
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#06 osgi-resource-locator

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#02  java:com.fasterxml.jackson.core:jackson-databind [Apache 2.0]
#03  com.fasterxml.jackson.core:jackson-annotations [Apache 2.0]
#04  com.fasterxml.jackson.core:jackson-core [Apache 2.0]
#05  com.fasterxml.jackson.module:jackson-module-jakarta-xmlbind-
annotations [Apache 2.0]
#06  com.fasterxml.jackson.core:jackson-core [Apache 2.0]
#07  jakarta.activation:jakarta.activation-api [EDL 1.0]
#08  jakarta.xml.bind:jakarta.xml.bind-api [EDL 1.0]
#09  java:org.glassfish.jersey.core:jersey-common[EPL 2.0 + GPL v.2 with
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#10  jakarta.annotation:jakarta.annotation-api [EPL 2.0 + GPL v.2 with
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```

```
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#12 jakarta.ws.rs:jakarta.ws.rs-api [EPL 2.0 + GPL v.2 with CPE]
#13 org.glassfish.hk2:osgi-resource-locator [EPL 2.0 + GPL v.2 with CPE]
#14 org.osgi:osgi.core [Apache 2.0]
#14 org.osgi:osgi.cmpn [Apache 2.0]
#15 java:org.glassfish.jersey.ext:jersey-entity-filtering [EPL 2.0 + GPL v.2
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```

```
-----
-----
Notices for #01 Jackson Annotations to #06 Jackson Core
-----
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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-----
Notices for Jakarta XML Binding
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#07 org.osgi-resource-locator

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```

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```
-----
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```

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```
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```

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github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
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github.com/go-redis/redis/v8

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RNG2Schtrn.xsl:

Stylesheet for extracting Schematron information from a RELAX-NG schema.
Based on the stylesheet for extracting Schematron information from
W3C XML Schema.
Created by Eddie Robertsson 2002/06/01
2009/12/10 hj: changed Schematron namespace to ISO URI (Holger Joukl)

XSD2Schtrn.xsl:

based on an original transform by Eddie Robertsson
2001/04/21 fn: added support for included schemas
2001/06/27 er: changed XML Schema prefix from xsd: to xs: and
changed to the Rec namespace
2009/12/10 hj: changed Schematron namespace to ISO URI (Holger Joukl)

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// -----
// Transitive dependencies of this project determined from the
// maven pom organized by organization.
// -----

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++++
4th party dependencies

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```
github.com/prometheus/client_golang/prometheus 0.8.0 Apache 2.0
github.com/prometheus/client_model/go 0.14.0 Apache 2.0
github.com/prometheus/common "revision":
"7600349dcfe1abd18d72d3a1770870d9800a7801", "revisionTime":
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github.com/prometheus/procfs "revision":
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"2018-06-12T22:21:13Z", Apache 2.0
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github.com/beorn7/perks/quantile 0.3.0 MIT
Copyright (C) 2013 Blake Mizerany
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```
github.com/go-sql-driver/mysql 1.4.0 MPL 2.0
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"revisionTime": "2017-06-09T00:26:10Z", BSD style license
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"revisionTime": "2018-06-27T13:57:12Z"),
golang.org/x/crypto("revision": "a49355c7e3f8fe157a85be2f77e6e269a0f89602",
"revisionTime": "2018-06-20T09:14:27Z"),
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OCI SDK for Python

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4P Dependencies:

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idna >= 2.1

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
[http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#](http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#)

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Just configure this file as the SSLCertificateFile.#

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[Tatu continues]

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- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
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[The licence continues]

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- ```
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* Ariel Futoransky <futo@core-sdi.com>
* <http://www.core-sdi.com>
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- ```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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That's all there is to it!

ovs (Python)

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ovsdbapp

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pyasn1

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pyasn1-modules

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PyJWT

PyJWT 1.7.1
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4P Dependencies:

PYCA cryptography >= 1.4

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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SipHash24

The file Python/pyhash.c contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note:

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file Python/dtoa.c, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

/******

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Jean-loup Gailly

Mark Adler

jloup@gzip.org

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cfuhash

The implementation of the hash table used by the tracemalloc is based on the

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6

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2000

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no

2.0

1.6

2000

BeOpen.com

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1.6.1

1.6

2001

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no

2.1

2.0+1.6.1

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2.0.1

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2.1.1

2.1+2.0.1

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PSF

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2.1.2

2.1.1

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2.2 and above

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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strtod and dtoa
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Python 2.7.5-90.0.3

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes

2.2.2	2.2.1	2002	PSF	yes
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2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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README File

This is Python version 2.7.5
=====

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What's new in this release?

See the file "Misc/NEWS".

If you don't read instructions

Congratulations on getting this far. :-)

To start building right away (on UNIX): type "./configure" in the current directory and when it finishes, type "make". This creates an executable "./python"; to install in /usr/local, first do "su root" and then "make install".

The section 'Build instructions' below is still recommended reading.

What is Python anyway?

Python is an interpreted, interactive object-oriented programming language suitable (amongst other uses) for distributed application development, scripting, numeric computing and system testing. Python is often compared to Tcl, Perl, Java, JavaScript, Visual Basic or Scheme. To find out more about what Python can do for you, point your browser to <http://www.python.org/>.

How do I learn Python?

The official tutorial is still a good place to start; see <http://docs.python.org/> for online and downloadable versions, as well as a list of other introductions, and reference documentation.

There's a quickly growing set of books on Python. See <http://wiki.python.org/moin/PythonBooks> for a list.

Documentation -----

All documentation is provided online in a variety of formats. In order of importance for new users: Tutorial, Library Reference, Language Reference, Extending & Embedding, and the Python/C API. The Library Reference is especially of immense value since much of Python's power is described there, including the built-in data types and functions!

All documentation is also available online at the Python web site (<http://docs.python.org/>, see below). It is available online for occasional reference, or can be downloaded in many formats for faster access. The documentation is downloadable in HTML, PostScript, PDF, LaTeX, and reStructuredText (2.6+) formats; the LaTeX and reStructuredText versions are primarily for documentation authors, translators, and people with special formatting requirements.

Web sites -----

New Python releases and related technologies are published at <http://www.python.org/>. Come visit us!

Newsgroups and Mailing Lists -----

Read `comp.lang.python`, a high-volume discussion newsgroup about Python, or `comp.lang.python.announce`, a low-volume moderated newsgroup for Python-related announcements. These are also accessible as mailing lists: see <http://www.python.org/community/lists/> for an overview of these and many other Python-related mailing lists.

Archives are accessible via the Google Groups Usenet archive; see <http://groups.google.com/>. The mailing lists are also archived, see <http://www.python.org/community/lists/> for details.

Bug reports -----

To report or search for bugs, please use the Python Bug Tracker at <http://bugs.python.org/>.

Patches and contributions -----

To submit a patch or other contribution, please use the Python Patch

Manager at <http://bugs.python.org/>. Guidelines for patch submission may be found at <http://www.python.org/dev/patches/>.

If you have a proposal to change Python, you may want to send an email to the `comp.lang.python` or `python-ideas` mailing lists for initial feedback. A Python Enhancement Proposal (PEP) may be submitted if your idea gains ground. All current PEPs, as well as guidelines for submitting a new PEP, are listed at <http://www.python.org/dev/peps/>.

Questions -----

For help, if you can't find it in the manuals or on the web site, it's best to post to the `comp.lang.python` or the Python mailing list (see above). If you specifically don't want to involve the newsgroup or mailing list, send questions to `help@python.org` (a group of volunteers who answer questions as they can). The newsgroup is the most efficient way to ask public questions.

Build instructions =====

Before you can build Python, you must first configure it. Fortunately, the configuration and build process has been automated for Unix and Linux installations, so all you usually have to do is type a few commands and sit back. There are some platforms where things are not quite as smooth; see the platform specific notes below. If you want to build for multiple platforms sharing the same source tree, see the section on `VPATH` below.

Start by running the script `./configure`, which determines your system configuration and creates the Makefile. (It takes a minute or two -- please be patient!) You may want to pass options to the configure script -- see the section below on configuration options and variables. When it's done, you are ready to run `make`.

To build Python, you normally type `make` in the toplevel directory. If you have changed the configuration, the Makefile may have to be rebuilt. In this case, you may have to run `make` again to correctly build your desired target. The interpreter executable is built in the top level directory.

Once you have built a Python interpreter, see the subsections below on testing and installation. If you run into trouble, see the next section.

Previous versions of Python used a manual configuration process that involved editing the file `Modules/Setup`. While this file still exists and manual configuration is still supported, it is rarely needed any more: almost all modules are automatically built as appropriate under guidance of the `setup.py` script, which is run by `Make` after the interpreter has been built.

Troubleshooting -----

See also the platform specific notes in the next section.

If you run into other trouble, see the FAQ (<http://www.python.org/doc/faq/>) for hints on what can go wrong, and how to fix it.

If you rerun the configure script with different options, remove all object files by running "make clean" before rebuilding. Believe it or not, "make clean" sometimes helps to clean up other inexplicable problems as well. Try it before sending in a bug report!

If the configure script fails or doesn't seem to find things that should be there, inspect the config.log file.

If you get a warning for every file about the -Olimit option being no longer supported, you can ignore it. There's no foolproof way to know whether this option is needed; all we can do is test whether it is accepted without error. On some systems, e.g. older SGI compilers, it is essential for performance (specifically when compiling ceval.c, which has more basic blocks than the default limit of 1000). If the warning bothers you, edit the Makefile to remove "-Olimit 1500" from the OPT variable.

If you get failures in test_long, or sys.maxint gets set to -1, you are probably experiencing compiler bugs, usually related to optimization. This is a common problem with some versions of gcc, and some vendor-supplied compilers, which can sometimes be worked around by turning off optimization. Consider switching to stable versions (gcc 2.95.2, gcc 3.x, or contact your vendor.)

From Python 2.0 onward, all Python C code is ANSI C. Compiling using old K&R-C-only compilers is no longer possible. ANSI C compilers are available for all modern systems, either in the form of updated compilers from the vendor, or one of the free compilers (gcc).

If "make install" fails mysteriously during the "compiling the library" step, make sure that you don't have any of the PYTHONPATH or PYTHONHOME environment variables set, as they may interfere with the newly built executable which is compiling the library.

Unsupported systems

A number of systems are not supported in Python 2.7 anymore. Some support code is still present, but will be removed in later versions. If you still need to use current Python versions on these systems, please send a message to python-dev@python.org indicating that you volunteer to support this system. For a more detailed discussion regarding no-longer-supported and resupporting platforms, as well as a list of platforms that became or will be unsupported, see PEP 11.

More specifically, the following systems are not supported any longer:

- SunOS 4
- DYNIX
- dgux
- Minix
- NeXT
- Irix 4 and --with-sgi-dl
- Linux 1
- Systems defining `__d6_pthread_create` (configure.ac)
- Systems defining `PY_PTHREAD_D4`, `PY_PTHREAD_D6`, or `PY_PTHREAD_D7` in `thread_pthread.h`

- Systems using --with-dl-dld
- Systems using --without-universal-newlines
- MacOS 9
- Systems using --with-wctype-functions
- Win9x, WinME

Platform specific notes

(Some of these may no longer apply. If you find you can build Python on these platforms without the special directions mentioned here, submit a documentation bug report to SourceForge (see Bug Reports above) so we can remove them!)

Unix platforms: If your vendor still ships (and you still use) Berkeley DB 1.85 you will need to edit Modules/Setup to build the bsddb185 module and add a line to sitecustomize.py which makes it the default. In Modules/Setup a line like

```
bsddb185 bsddbmodule.c
```

should work. (You may need to add -I, -L or -l flags to direct the compiler and linker to your include files and libraries.)

XXX I think this next bit is out of date:

64-bit platforms: The modules audioop, and imageop don't work. The setup.py script disables them on 64-bit installations. Don't try to enable them in the Modules/Setup file. They contain code that is quite wordsize sensitive. (If you have a fix, let us know!)

Solaris: When using Sun's C compiler with threads, at least on Solaris 2.5.1, you need to add the "-mt" compiler option (the simplest way is probably to specify the compiler with this option as the "CC" environment variable when running the configure script).

When using GCC on Solaris, beware of binutils 2.13 or GCC versions built using it. This mistakenly enables the -zcombreloc option which creates broken shared libraries on Solaris. binutils 2.12 works, and the binutils maintainers are aware of the problem. Binutils 2.13.1 only partially fixed things. It appears that 2.13.2 solves the problem completely. This problem is known to occur with Solaris 2.7 and 2.8, but may also affect earlier and later versions of the OS.

When the dynamic loader complains about errors finding shared libraries, such as

```
ld.so.1: ./python: fatal: libstdc++.so.5: open failed:  
No such file or directory
```

you need to first make sure that the library is available on your system. Then, you need to instruct the dynamic loader how to find it. You can choose any of the following strategies:

1. When compiling Python, set LD_RUN_PATH to the directories containing missing libraries.

2. When running Python, set LD_LIBRARY_PATH to these directories.
3. Use crle(8) to extend the search path of the loader.
4. Modify the installed GCC specs file, adding -R options into the *link: section.

The complex object fails to compile on Solaris 10 with gcc 3.4 (at least up to 3.4.3). To work around it, define Py_HUGE_VAL as HUGE_VAL(), e.g.:

```
make CPPFLAGS="-D"Py_HUGE_VAL=HUGE_VAL()" -I. -I$(srcdir)/Include'  
./python setup.py CPPFLAGS="-D"Py_HUGE_VAL=HUGE_VAL()"
```

Linux: A problem with threads and fork() was tracked down to a bug in the pthreads code in glibc version 2.0.5; glibc version 2.0.7 solves the problem. This causes the popen2 test to fail; problem and solution reported by Pablo Bleyer.

Red Hat Linux: Red Hat 9 built Python2.2 in UCS-4 mode and hacked Tcl to support it. To compile Python2.3 with Tkinter, you will need to pass --enable-unicode=ucs4 flag to ./configure.

There's an executable /usr/bin/python which is Python 1.5.2 on most older Red Hat installations; several key Red Hat tools require this version. Python 2.1.x may be installed as /usr/bin/python2. The Makefile installs Python as /usr/local/bin/python, which may or may not take precedence over /usr/bin/python, depending on how you have set up \$PATH.

FreeBSD 3.x and probably platforms with NCurses that use libmytinfo or similar: When using cursesmodule, the linking is not done in the correct order with the defaults. Remove "-ltermcap" from the readline entry in Setup, and use as curses entry: "curses cursesmodule.c -lmytinfo -lncurses -ltermcap" - "mytinfo" (so called on FreeBSD) should be the name of the auxiliary library required on your platform. Normally, it would be linked automatically, but not necessarily in the correct order.

BSDI: BSDI versions before 4.1 have known problems with threads, which can cause strange errors in a number of modules (for instance, the 'test_signal' test script will hang forever.) Turning off threads (with --with-threads=no) or upgrading to BSDI 4.1 solves this problem.

DEC Unix: Run configure with --with-dec-threads, or with --with-threads=no if no threads are desired (threads are on by default). When using GCC, it is possible to get an internal compiler error if optimization is used. This was reported for GCC 2.7.2.3 on selectmodule.c. Manually compile the affected file without optimization to solve the problem.

DEC Ultrix: compile with GCC to avoid bugs in the native compiler, and pass SHELL=/bin/sh5 to Make when installing.

AIX: A complete overhaul of the shared library support is now in place. See Misc/AIX-NOTES for some notes on how it's done. (The optimizer bug reported at this place in previous releases has been worked around by a minimal code change.) If you get errors about pthread_* functions, during compile or during testing, try setting CC to a thread-safe (reentrant) compiler, like "cc_r". For full C++ module support, set CC="xlc_r" (or CC="xlc" without thread support).

AIX 5.3: To build a 64-bit version with IBM's compiler, I used the following:

```
export PATH=/usr/bin:/usr/vacpp/bin
./configure --with-gcc="xlc_r -q64" --with-cxx="xlc_r -q64" \
    --disable-ipv6 AR="ar -X64"
make
```

HP-UX: When using threading, you may have to add `-D_REENTRANT` to the `OPT` variable in the top-level Makefile; reported by Pat Knight, this seems to make a difference (at least for HP-UX 10.20) even though `pyconfig.h` defines it. This seems unnecessary when using HP/UX 11 and later - threading seems to work "out of the box".

HP-UX ia64: When building on the ia64 (Itanium) platform using HP's compiler, some experience has shown that the compiler's optimiser produces a completely broken version of python (see <http://bugs.python.org/814976>). To work around this, edit the Makefile and remove `-O` from the `OPT` line.

To build a 64-bit executable on an Itanium 2 system using HP's compiler, use these environment variables:

```
CC=cc
CXX=aCC
BASECFLAGS="+DD64"
LDLFLAGS="+DD64 -lxnet"
```

and call configure as:

```
./configure --without-gcc
```

then `*unset*` the environment variables again before running `make`. (At least one of these flags causes the build to fail if it remains set.) You still have to edit the Makefile and remove `-O` from the `OPT` line.

HP PA-RISC 2.0: A recent bug report (<http://bugs.python.org/546117>) suggests that the C compiler in this 64-bit system has bugs in the optimizer that break Python. Compiling without optimization solves the problems.

SCO: The following apply to SCO 3 only; Python builds out of the box on SCO 5 (or so we've heard).

1) Everything works much better if you add `-U__STDC__` to the `defs`. This is because all the SCO header files are broken. Anything that isn't mentioned in the C standard is conditionally excluded when `__STDC__` is defined.

2) Due to the U.S. export restrictions, SCO broke the crypt stuff out into a separate library, `libcrypt_i.a` so the `LIBS` needed be set to:

```
LIBS=' -lsocket -lcrypt_i'
```

UnixWare: There are known bugs in the math library of the system, as well as problems in the handling of threads (calling `fork` in one thread may interrupt system calls in others). Therefore, `test_math` and

tests involving threads will fail until those problems are fixed.

QNX: Chris Herborth (chrish@qnx.com) writes:
configure works best if you use GNU bash; a port is available on ftp.qnx.com in /usr/free. I used the following process to build, test and install Python 1.5.x under QNX:

- 1) `CONFIG_SHELL=/usr/local/bin/bash CC=cc RANLIB=: \`
`./configure --verbose --without-gcc --with-libm=""`
- 2) edit Modules/Setup to activate everything that makes sense for your system... tested here at QNX with the following modules:

```
array, audioop, binascii, cPickle, cStringIO, cmath,
crypt, curses, errno, fcntl, gdbm, grp, imageop,
_locale, math, md5, new, operator, parser, pcre,
posix, pwd, readline, regex, reop,
select, signal, socket, soundex, strop, struct,
syslog, termios, time, timing, zlib, audioop, imageop
```

- 3) `make SHELL=/usr/local/bin/bash`

or, if you feel the need for speed:

```
make SHELL=/usr/local/bin/bash OPT="-5 -Oil+nrt"
```

- 4) `make SHELL=/usr/local/bin/bash test`

Using GNU readline 2.2 seems to behave strangely, but I think that's a problem with my readline 2.2 port. :-\

- 5) `make SHELL=/usr/local/bin/bash install`

If you get SIGSEGVs while running Python (I haven't yet, but I've only run small programs and the test cases), you're probably running out of stack; the default 32k could be a little tight. To increase the stack size, edit the Makefile to read: `LD_FLAGS = -N 48k`

BeOS: See Misc/BeOS-NOTES for notes about compiling/installing Python on BeOS R3 or later. Note that only the PowerPC platform is supported for R3; both PowerPC and x86 are supported for R4.

Cray T3E: Mark Hadfield (m.hadfield@niwa.co.nz) writes:
Python can be built satisfactorily on a Cray T3E but based on my experience with the NIWA T3E (2002-05-22, version 2.2.1) there are a few bugs and gotchas. For more information see a thread on comp.lang.python in May 2002 entitled "Building Python on Cray T3E".

- 1) Use Cray's `cc` and not `gcc`. The latter was reported not to work by Konrad Hinsén. It may work now, but it may not.
- 2) To set `sys.platform` to something sensible, pass the following environment variable to the configure script:

```
MACHDEP=unicosmk
```

- 2) Run configure with option `--enable-unicode=ucs4`.

- 3) The Cray T3E does not support dynamic linking, so extension modules have to be built by adding (or uncommenting) lines in Modules/Setup. The minimum set of modules is

```
posix, new, _sre, unicodedata
```

On NIWA's vanilla T3E system the following have also been included successfully:

```
_codecs, _locale, _socket, _symtable, _testcapi, _weakref
array, binascii, cmath, cPickle, crypt, cStringIO, dbm
errno, fcntl, grp, math, md5, operator, parser, pcre, pwd
regex, rotor, select, struct, strop, syslog, termios
time, timing, xreadlines
```

- 4) Once the python executable and library have been built, make will execute setup.py, which will attempt to build remaining extensions and link them dynamically. Each of these attempts will fail but should not halt the make process. This is normal.
- 5) Running "make test" uses a lot of resources and causes problems on our system. You might want to try running tests singly or in small groups.

SGI: SGI's standard "make" utility (/bin/make or /usr/bin/make) does not check whether a command actually changed the file it is supposed to build. This means that whenever you say "make" it will redo the link step. The remedy is to use SGI's much smarter "smake" utility (/usr/sbin/smake), or GNU make. If you set the first line of the Makefile to #!/usr/sbin/smake smake will be invoked by make (likewise for GNU make).

WARNING: There are bugs in the optimizer of some versions of SGI's compilers that can cause bus errors or other strange behavior, especially on numerical operations. To avoid this, try building with "make OPT=".

OS/2: If you are running Warp3 or Warp4 and have IBM's VisualAge C/C++ compiler installed, just change into the pc\os2vacpp directory and type NMAKE. Threading and sockets are supported by default in the resulting binaries of PYTHON15.DLL and PYTHON.EXE.

Reliant UNIX: The thread support does not compile on Reliant UNIX, and there is a (minor) problem in the configure script for that platform as well. This should be resolved in time for a future release.

MacOSX: The tests will crash on both 10.1 and 10.2 with SEGV in test_re and test_sre due to the small default stack size. If you set the stack size to 2048 before doing a "make test" the failure can be avoided. If you're using the tcsh or csh shells, use "limit stacksize 2048" and for the bash shell (the default as of OSX 10.3), use "ulimit -s 2048".

On naked Darwin you may want to add the configure option "--disable-toolbox-glue" to disable the glue code for the Carbon interface modules. The modules themselves are currently only built if you add the --enable-framework option, see below.

On a clean OSX /usr/local does not exist. Do a

```
"sudo mkdir -m 775 /usr/local"
```

before you do a make install. It is probably not a good idea to do "sudo make install" which installs everything as superuser, as this may later cause problems when installing distutils-based additions.

Some people have reported problems building Python after using "fink" to install additional unix software. Disabling fink (remove all references to /sw from your .profile or .login) should solve this.

You may want to try the configure option "--enable-framework" which installs Python as a framework. The location can be set as argument to the --enable-framework option (default /Library/Frameworks). A framework install is probably needed if you want to use any Aqua-based GUI toolkit (whether Tkinter, wxPython, Carbon, Cocoa or anything else).

You may also want to try the configure option "--enable-universalsdk" which builds Python as a universal binary with support for the i386 and PPC architectures. This requires Xcode 2.1 or later to build.

See Mac/README for more information on framework and universal builds.

Cygwin: With recent (relative to the time of writing, 2001-12-19) Cygwin installations, there are problems with the interaction of dynamic linking and fork(). This manifests itself in build failures during the execution of setup.py.

There are two workarounds that both enable Python (albeit without threading support) to build and pass all tests on NT/2000 (and most likely XP as well, though reports of testing on XP would be appreciated).

The workarounds:

(a) the band-aid fix is to link the _socket module statically rather than dynamically (which is the default).

To do this, run "./configure --with-threads=no" including any other options you need (--prefix, etc.). Then in Modules/Setup uncomment the lines:

```
#SSL=/usr/local/ssl
#_socket socketmodule.c \
#     -DUSE_SSL -I$(SSL)/include -I$(SSL)/include/openssl \
#     -L$(SSL)/lib -lssl -lcrypto
```

and remove "local/" from the SSL variable. Finally, just run "make"!

(b) The "proper" fix is to rebase the Cygwin DLLs to prevent base address conflicts. Details on how to do this can be found in the following mail:

<http://sources.redhat.com/ml/cygwin/2001-12/msg00894.html>

It is hoped that a version of this solution will be incorporated into the Cygwin distribution fairly soon.

Two additional problems:

(1) Threading support should still be disabled due to a known bug in Cygwin pthreads that causes `test_threadedtempfile` to hang.

(2) The `_curses` module does not build. This is a known Cygwin `ncurses` problem that should be resolved the next time that this package is released.

On older versions of Cygwin, `test_poll` may hang and `test_strftime` may fail.

The situation on 9X/Me is not accurately known at present. Some time ago, there were reports that the following regression tests failed:

```
test_pwd
test_select (hang)
test_socket
```

Due to the `test_select` hang on 9X/Me, one should run the regression test using the following:

```
make TESTOPTS='-l -x test_select' test
```

News regarding these platforms with more recent Cygwin versions would be appreciated!

Windows: When executing Python scripts on the command line using file type associations (i.e. starting "script.py" instead of "python script.py"), redirects may not work unless you set a specific registry key. See the Knowledge Base article <<http://support.microsoft.com/kb/321788>>.

Configuring the bsddb and dbm modules

Beginning with Python version 2.3, the `PyBsddb` package <<http://pybsddb.sf.net/>> was adopted into Python as the `bsddb` package, exposing a set of package-level functions which provide backwards-compatible behavior. Only versions 3.3 through 4.4 of Sleepycat's libraries provide the necessary API, so older versions aren't supported through this interface. The old `bsddb` module has been retained as `bsddb185`, though it is not built by default. Users wishing to use it will have to tweak `Modules/Setup` to build it. The `dbm` module will still be built against the Sleepycat libraries if other preferred alternatives (`ndbm`, `gdbm`) are not found.

Building the sqlite3 module

To build the `sqlite3` module, you'll need the `sqlite3` or `libsqlite3` packages installed, including the header files. Many modern operating systems distribute the headers in a separate package to the library - often it will be the same name as the main package, but with a `-dev` or `-devel` suffix.

The version of `pysqlite2` that's including in Python needs `sqlite3` 3.0.8 or later. `setup.py` attempts to check that it can find a correct version.

Configuring threads

As of Python 2.0, threads are enabled by default. If you wish to compile without threads, or if your thread support is broken, pass the `--with-threads=no` switch to configure. Unfortunately, on some platforms, additional compiler and/or linker options are required for threads to work properly. Below is a table of those options, collected by Bill Janssen. We would love to automate this process more, but the information below is not enough to write a patch for the `configure.ac` file, so manual intervention is required. If you patch the `configure.ac` file and are confident that the patch works, please send in the patch. (Don't bother patching the `configure` script itself -- it is regenerated each time the `configure.ac` file changes.)

Compiler switches for threads

.....

The definition of `_REENTRANT` should be configured automatically, if that does not work on your system, or if `_REENTRANT` is defined incorrectly, please report that as a bug.

OS/Compiler/threads (POSIX is draft 10, DCE is draft 4)	Switches for use with threads compile & link
SunOS 5.{1-5}/{gcc,SunPro cc}/solaris	-mt
SunOS 5.5/{gcc,SunPro cc}/POSIX	(nothing)
DEC OSF/1 3.x/cc/DCE (butenhof@zko.dec.com)	-threads
Digital UNIX 4.x/cc/DCE (butenhof@zko.dec.com)	-threads
Digital UNIX 4.x/cc/POSIX (butenhof@zko.dec.com)	-pthread
AIX 4.1.4/cc_r/d7 (buhrt@iquest.net)	(nothing)
AIX 4.1.4/cc_r4/DCE (buhrt@iquest.net)	(nothing)
IRIX 6.2/cc/POSIX (robertl@cwi.nl)	(nothing)

Linker (ld) libraries and flags for threads

.....

OS/threads	Libraries/switches for use with threads
SunOS 5.{1-5}/solaris	-lthread
SunOS 5.5/POSIX	-lpthread
DEC OSF/1 3.x/DCE (butenhof@zko.dec.com)	-lpthreads -lmach -lc_r -lc
Digital UNIX 4.x/DCE (butenhof@zko.dec.com)	-lpthreads -lpthread -lmach -lexc -lc
Digital UNIX 4.x/POSIX (butenhof@zko.dec.com)	-lpthread -lmach -lexc -lc
AIX 4.1.4/{draft7,DCE} (buhrt@iquest.net)	(nothing)
IRIX 6.2/POSIX (jph@emilia.engr.sgi.com)	-lpthread

Building a shared libpython

Starting with Python 2.3, the majority of the interpreter can be built into a shared library, which can then be used by the interpreter executable, and by applications embedding Python. To enable this feature, configure with `--enable-shared`.

If you enable this feature, the same object files will be used to create a static library. In particular, the static library will contain object files using position-independent code (PIC) on platforms where PIC flags are needed for the shared library.

Configuring additional built-in modules

Starting with Python 2.1, the `setup.py` script at the top of the source distribution attempts to detect which modules can be built and automatically compiles them. Autodetection doesn't always work, so you can still customize the configuration by editing the `Modules/Setup` file; but this should be considered a last resort. The rest of this section only applies if you decide to edit the `Modules/Setup` file. You also need this to enable static linking of certain modules (which is needed to enable profiling on some systems).

This file is initially copied from `Setup.dist` by the `configure` script; if it does not exist yet, create it by copying `Modules/Setup.dist` yourself (`configure` will never overwrite it). Never edit `Setup.dist` -- always edit `Setup` or `Setup.local` (see below). Read the comments in the file for information on what kind of edits are allowed. When you have edited `Setup` in the `Modules` directory, the interpreter will automatically be rebuilt the next time you run `make` (in the `toplevel` directory).

Many useful modules can be built on any Unix system, but some optional modules can't be reliably autodetected. Often the quickest way to determine whether a particular module works or not is to see if it will build: enable it in `Setup`, then if you get compilation or link errors, disable it -- you're either missing support or need to adjust the compilation and linking parameters for that module.

On SGI IRIX, there are modules that interface to many SGI specific system libraries, e.g. the GL library and the audio hardware. These modules will not be built by the `setup.py` script.

In addition to the file `Setup`, you can also edit the file `Setup.local`. (the `makesetup` script processes both). You may find it more convenient to edit `Setup.local` and leave `Setup` alone. Then, when installing a new Python version, you can copy your old `Setup.local` file.

Setting the optimization/debugging options

If you want or need to change the optimization/debugging options for the C compiler, assign to the `OPT` variable on the `toplevel` `make` command; e.g. `"make OPT=-g"` will build a debugging version of Python on most platforms. The default is `OPT=-O`; a value for `OPT` in the environment when the `configure` script is run overrides this default (likewise for `CC`; and the initial value for `LIBS` is used as the base set of libraries to link with).

When compiling with GCC, the default value of OPT will also include the `-Wall` and `-Wstrict-prototypes` options.

Additional debugging code to help debug memory management problems can be enabled by using the `--with-pydebug` option to the configure script.

For flags that change binary compatibility, use the `EXTRA_CFLAGS` variable.

Profiling -----

If you want C profiling turned on, the easiest way is to run configure with the `CC` environment variable to the necessary compiler invocation. For example, on Linux, this works for profiling using `gprof(1)`:

```
CC="gcc -pg" ./configure
```

Note that on Linux, `gprof` apparently does not work for shared libraries. The Makefile/Setup mechanism can be used to compile and link most extension modules statically.

Coverage checking -----

For C coverage checking using `gcov`, run "make coverage". This will build a Python binary with profiling activated, and a `.gcno` and `.gcda` file for every source file compiled with that option. With the built binary, now run the code whose coverage you want to check. Then, you can see coverage statistics for each individual source file by running `gcov`, e.g.

```
gcov -o Modules zlibmodule
```

This will create a `"zlibmodule.c.gcov"` file in the current directory containing coverage info for that source file.

This works only for source files statically compiled into the executable; use the Makefile/Setup mechanism to compile and link extension modules you want to coverage-check statically.

Testing -----

To test the interpreter, type "make test" in the top-level directory. This runs the test set twice (once with no compiled files, once with the compiled files left by the previous test run). The test set produces some output. You can generally ignore the messages about skipped tests due to optional features which can't be imported. If a message is printed about a failed test or a traceback or core dump is produced, something is wrong. On some Linux systems (those that are not yet using `glibc 6`), `test_strftime` fails due to a non-standard implementation of `strftime()` in the C library. Please ignore this, or upgrade to `glibc` version 6.

By default, tests are prevented from overusing resources like disk space and

memory. To enable these tests, run "make testall".

IMPORTANT: If the tests fail and you decide to mail a bug report, *don't* include the output of "make test". It is useless. Run the failing test manually, as follows:

```
./python Lib/test/regrtest.py -v test_whatever
```

(substituting the top of the source tree for '.' if you built in a different directory). This runs the test in verbose mode.

Installing -----

To install the Python binary, library modules, shared library modules (see below), include files, configuration files, and the manual page, just type

```
make install
```

This will install all platform-independent files in subdirectories of the directory given with the `--prefix` option to configure or to the `'prefix'` Make variable (default `/usr/local`). All binary and other platform-specific files will be installed in subdirectories if the directory given by `--exec-prefix` or the `'exec_prefix'` Make variable (defaults to the `--prefix` directory) is given.

If `DESTDIR` is set, it will be taken as the root directory of the installation, and files will be installed into `$(DESTDIR)$(prefix)`, `$(DESTDIR)$(exec_prefix)`, etc.

All subdirectories created will have Python's version number in their name, e.g. the library modules are installed in `"/usr/local/lib/python<version>/"` by default, where `<version>` is the `<major>.<minor>` release number (e.g. "2.1"). The Python binary is installed as `"python<version>"` and a hard link named `"python"` is created. The only file not installed with a version number in its name is the manual page, installed as `"/usr/local/man/man1/python.1"` by default.

If you want to install multiple versions of Python see the section below entitled "Installing multiple versions".

The only thing you may have to install manually is the Python mode for Emacs found in `Misc/python-mode.el`. (But then again, more recent versions of Emacs may already have it.) Follow the instructions that came with Emacs for installation of site-specific files.

On Mac OS X, if you have configured Python with `--enable-framework`, you should use `"make frameworkinstall"` to do the installation. Note that this installs the Python executable in a place that is not normally on your `PATH`, you may want to set up a symlink in `/usr/local/bin`.

Installing multiple versions -----

On Unix and Mac systems if you intend to install multiple versions of Python using the same installation prefix (`--prefix` argument to the configure script) you must take care that your primary python executable is not

overwritten by the installation of a different version. All files and directories installed using "make altinstall" contain the major and minor version and can thus live side-by-side. "make install" also creates `$(prefix)/bin/python` which refers to `$(prefix)/bin/pythonX.Y`. If you intend to install multiple versions using the same prefix you must decide which version (if any) is your "primary" version. Install that version using "make install". Install all other versions using "make altinstall".

For example, if you want to install Python 2.5, 2.6 and 3.0 with 2.6 being the primary version, you would execute "make install" in your 2.6 build directory and "make altinstall" in the others.

Configuration options and variables

Some special cases are handled by passing options to the configure script.

WARNING: if you rerun the configure script with different options, you must run "make clean" before rebuilding. Exceptions to this rule: after changing `--prefix` or `--exec-prefix`, all you need to do is remove `Modules/getpath.o`.

`--with(out)-gcc`: The configure script uses gcc (the GNU C compiler) if it finds it. If you don't want this, or if this compiler is installed but broken on your platform, pass the option `--without-gcc`. You can also pass "CC=cc" (or whatever the name of the proper C compiler is) in the environment, but the advantage of using `--without-gcc` is that this option is remembered by the `config.status` script for its `--recheck` option.

`--prefix`, `--exec-prefix`: If you want to install the binaries and the Python library somewhere else than in `/usr/local/{bin,lib}`, you can pass the option `--prefix=DIRECTORY`; the interpreter binary will be installed as `DIRECTORY/bin/python` and the library files as `DIRECTORY/lib/python/*`. If you pass `--exec-prefix=DIRECTORY` (as well) this overrides the installation prefix for architecture-dependent files (like the interpreter binary). Note that `--prefix=DIRECTORY` also affects the default module search path (`sys.path`), when `Modules/config.c` is compiled. Passing `make` the option `prefix=DIRECTORY` (and/or `exec_prefix=DIRECTORY`) overrides the prefix set at configuration time; this may be more convenient than re-running the configure script if you change your mind about the install prefix.

`--with-readline`: This option is no longer supported. GNU readline is automatically enabled by `setup.py` when present.

`--with-threads`: On most Unix systems, you can now use multiple threads, and support for this is enabled by default. To disable this, pass `--with-threads=no`. If the library required for threads lives in a peculiar place, you can use `--with-thread=DIRECTORY`. IMPORTANT: run "make clean" after changing (either enabling or disabling) this option, or you will get link errors! Note: for DEC Unix use `--with-dec-threads` instead.

`--with-sgi-dl`: On SGI IRIX 4, dynamic loading of extension modules is

supported by the "dl" library by Jack Jansen, which is ftp'able from ftp://ftp.cwi.nl/pub/dynload/dl-1.6.tar.Z. This is enabled (after you've ftp'ed and compiled the dl library) by passing --with-sgi-dl=DIRECTORY where DIRECTORY is the absolute pathname of the dl library. (Don't bother on IRIX 5, it already has dynamic linking using SunOS style shared libraries.) THIS OPTION IS UNSUPPORTED.

- with-dl-dld: Dynamic loading of modules is rumored to be supported on some other systems: VAX (Ultrix), Sun3 (SunOS 3.4), Sequent Symmetry (Dynix), and Atari ST. This is done using a combination of the GNU dynamic loading package (ftp://ftp.cwi.nl/pub/dynload/dl-dld-1.1.tar.Z) and an emulation of the SGI dl library mentioned above (the emulation can be found at ftp://ftp.cwi.nl/pub/dynload/dld-3.2.3.tar.Z). To enable this, ftp and compile both libraries, then call configure, passing it the option --with-dl-dld=DL_DIRECTORY,DLD_DIRECTORY where DL_DIRECTORY is the absolute pathname of the dl emulation library and DLD_DIRECTORY is the absolute pathname of the GNU dld library. (Don't bother on SunOS 4 or 5, they already have dynamic linking using shared libraries.) THIS OPTION IS UNSUPPORTED.
- with-libm, --with-libc: It is possible to specify alternative versions for the Math library (default -lm) and the C library (default the empty string) using the options --with-libm=STRING and --with-libc=STRING, respectively. For example, if your system requires that you pass -lc_s to the C compiler to use the shared C library, you can pass --with-libc=-lc_s. These libraries are passed after all other libraries, the C library last.
- with-libs='libs': Add 'libs' to the LIBS that the python interpreter is linked against.
- with-cxx-main=<compiler>: If you plan to use C++ extension modules, then -- on some platforms -- you need to compile python's main() function with the C++ compiler. With this option, make will use <compiler> to compile main() *and* to link the python executable. It is likely that the resulting executable depends on the C++ runtime library of <compiler>. (The default is --without-cxx-main.)

There are platforms that do not require you to build Python with a C++ compiler in order to use C++ extension modules. E.g., x86 Linux with ELF shared binaries and GCC 3.x, 4.x is such a platform. We recommend that you configure Python --without-cxx-main on those platforms because a mismatch between the C++ compiler version used to build Python and to build a C++ extension module is likely to cause a crash at runtime.

The Python installation also stores the variable CXX that determines, e.g., the C++ compiler distutils calls by default to build C++ extensions. If you set CXX on the configure command line to any string of non-zero length, then configure won't change CXX. If you do not preset CXX but pass --with-cxx-main=<compiler>, then configure sets CXX=<compiler>. In all other cases, configure looks for a C++ compiler by some common names (c++, g++, gcc, CC, cxx, cc++, cl) and sets CXX to the first compiler it finds. If it does not find any

C++ compiler, then it sets CXX="".

Similarly, if you want to change the command used to link the python executable, then set LINKCC on the configure command line.

- with-pydebug: Enable additional debugging code to help track down memory management problems. This allows printing a list of all live objects when the interpreter terminates.
- with(out)-universal-newlines: enable reading of text files with foreign newline convention (default: enabled). In other words, any of \r, \n or \r\n is acceptable as end-of-line character. If enabled import and execfile will automatically accept any newline in files. Python code can open a file with open(file, 'U') to read it in universal newline mode. THIS OPTION IS UNSUPPORTED.
- with-tsc: Profile using the Pentium timestamping counter (TSC).
- with-system-ffi: Build the _ctypes extension module using an ffi library installed on the system.
- with-dbmliborder=db1:db2:...: Specify the order that backends for the dbm extension are checked. Valid value is a colon separated string with the backend names `ndbm`, `gdbm` and `bdb`.

Building for multiple architectures (using the VPATH feature)

If your file system is shared between multiple architectures, it usually is not necessary to make copies of the sources for each architecture you want to support. If the make program supports the VPATH feature, you can create an empty build directory for each architecture, and in each directory run the configure script (on the appropriate machine with the appropriate options). This creates the necessary subdirectories and the Makefiles therein. The Makefiles contain a line VPATH=... which points to a directory containing the actual sources. (On SGI systems, use "smake -J1" instead of "make" if you use VPATH -- don't try gnumake.)

For example, the following is all you need to build a minimal Python in /usr/tmp/python (assuming ~guido/src/python is the toplevel directory and you want to build in /usr/tmp/python):

```
$ mkdir /usr/tmp/python
$ cd /usr/tmp/python
$ ~guido/src/python/configure
[...]
```

```
$ make
```

```
[...]
```

```
$
```

Note that configure copies the original Setup file to the build directory if it finds no Setup file there. This means that you can edit the Setup file for each architecture independently. For this reason, subsequent changes to the original Setup file are not tracked automatically, as they might overwrite local changes. To force a copy of a changed original Setup file, delete the target Setup file. (The makesetup script supports multiple input files, so if you want to be fancy you can change the rules to create an empty Setup.local if it doesn't exist and run it with arguments \$(srcdir)/Setup Setup.local;

however this assumes that you only need to add modules.)

Also note that you can't use a workspace for VPATH and non VPATH builds. The object files left behind by one version confuses the other.

Building on non-UNIX systems

For Windows (2000/NT/ME/98/95), assuming you have MS VC++ 7.1, the project files are in PCbuild, the workspace is pcbuild.dsw. See PCbuild\readme.txt for detailed instructions.

For other non-Unix Windows compilers, in particular MS VC++ 6.0 and for OS/2, enter the directory "PC" and read the file "readme.txt".

For the Mac, a separate source distribution will be made available, for use with the CodeWarrior compiler. If you are interested in Mac development, join the PythonMac Special Interest Group (<http://www.python.org/sigs/pythonmac-sig/>, or send email to pythonmac-sig-request@python.org).

Of course, there are also binary distributions available for these platforms -- see <http://www.python.org/>.

To port Python to a new non-UNIX system, you will have to fake the effect of running the configure script manually (for Mac and PC, this has already been done for you). A good start is to copy the file pyconfig.h.in to pyconfig.h and edit the latter to reflect the actual configuration of your system. Most symbols must simply be defined as 1 only if the corresponding feature is present and can be left alone otherwise; however the *_t type symbols must be defined as some variant of int if they need to be defined at all.

For all platforms, it's important that the build arrange to define the preprocessor symbol NDEBUB on the compiler command line in a release build of Python (else assert() calls remain in the code, hurting release-build performance). The Unix, Windows and Mac builds already do this.

Miscellaneous issues

=====

Emacs mode

There's an excellent Emacs editing mode for Python code; see the file Misc/python-mode.el. Originally written by the famous Tim Peters, it is now maintained by the equally famous Barry Warsaw. The latest version, along with various other contributed Python-related Emacs goodies, is online at <http://launchpad.net/python-mode/>.

Tkinter

The setup.py script automatically configures this when it detects a usable Tcl/Tk installation. This requires Tcl/Tk version 8.0 or higher.

For more Tkinter information, see the Tkinter Resource page:
<http://www.python.org/topics/tkinter/>

There are demos in the Demo/tkinter directory.

Note that there's a Python module called "Tkinter" (capital T) which lives in Lib/lib-tk/Tkinter.py, and a C module called "_tkinter" (lower case t and leading underscore) which lives in Modules/_tkinter.c. Demos and normal Tk applications import only the Python Tkinter module -- only the latter imports the C _tkinter module. In order to find the C _tkinter module, it must be compiled and linked into the Python interpreter -- the setup.py script does this. In order to find the Python Tkinter module, sys.path must be set correctly -- normal installation takes care of this.

Distribution structure

Most subdirectories have their own README files. Most files have comments.

Demo/	Demonstration scripts, modules and programs
Doc/	Documentation sources (reStructuredText)
Grammar/	Input for the parser generator
Include/	Public header files
LICENSE	Licensing information
Lib/	Python library modules
Mac/	Macintosh specific resources
Makefile.pre.in	Source from which config.status creates the Makefile.pre
Misc/	Miscellaneous useful files
Modules/	Implementation of most built-in modules
Objects/	Implementation of most built-in object types
PC/	Files specific to PC ports (DOS, Windows, OS/2)
PCbuild/	Build directory for Microsoft Visual C++
Parser/	The parser and tokenizer and their input handling
Python/	The byte-compiler and interpreter
README	The file you're reading now
RISCOS/	Files specific to RISC OS port
Tools/	Some useful programs written in Python
pyconfig.h.in	Source from which pyconfig.h is created (GNU autoheader output)
configure	Configuration shell script (GNU autoconf output)
configure.ac	Configuration specification (input for GNU autoconf)
install-sh	Shell script used to install files
setup.py	Python script used to build extension modules

The following files will (may) be created in the toplevel directory by the configuration and build processes:

Makefile	Build rules
Makefile.pre	Build rules before running Modules/makesetup
buildno	Keeps track of the build number
config.cache	Cache of configuration variables
pyconfig.h	Configuration header
config.log	Log from last configure run
config.status	Status from last run of the configure script
getbuildinfo.o	Object file from Modules/getbuildinfo.c
libpython<version>.a	The library archive
python	The executable interpreter
reflog.txt	Output from running the regression suite with the -R flag
tags, TAGS	Tags files for vi and Emacs

That's all, folks!

--Guido van Rossum (home page: <http://www.python.org/~guido/>)

python-asn1

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Python-libs

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

- (1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.
- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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python-mimeparse

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python-rsa

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python-swiftclient

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python-xmlsec

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python3-saml

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libxml2

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dateutil - Extensions to the standard Python datetime module.

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pytz

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pyyaml

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=====
gemu has the following 4th party dependencies :

seabios-bin	1.11.0-2
sgabios-bin	0.20110622svn-4
ipxe-roms-gemu	20180825-3.git133f4c.e17
python	2.7.5-89.0.1.e17

=====
4th party 1: seabios-bin

<https://github.com/coreboot/seabios>

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Version 3, 29 June 2007

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4th party 3: ipxe-roms-qemu

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4th party 4: python2

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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qemu-kvm

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exometer_slide.erl

%% This file is a copy of exometer_slide.erl from [https://github.com/Feuerlabs/
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%% with the following modifications:
%%
%% 1) The elements are tuples of numbers
%%
%% 2) Only one element for each expected interval point is added, intermediate values
%% are discarded. Thus, if we have a window of 60s and interval of 5s, at max 12
elements
%% are stored.

```
%%
%% 3) Additions can be provided as increments to the last value stored
%%
%% 4) sum/1 implements the sum of several slides, generating a new timestamp
sequence based
%%   on the given intervals. Elements on each window are added to the closest
interval point.
%%
%% Original commit: https://github.com/Feuerlabs/exometer_core/commit/
2759edc804211b5245867b32c9a20c8fe1d93441
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%%
%% @doc Efficient sliding-window buffer
%%
%% Initial implementation: 29 Sep 2009 by Tony Rogvall
%%
%% This module implements an efficient sliding window, maintaining
%% two lists - a primary and a secondary. Values are paired with a
%% timestamp (millisecond resolution, see `timestamp/0`)
%% and prepended to the primary list. When the time span between the oldest
%% and the newest entry in the primary list exceeds the given window size,
%% the primary list is shifted into the secondary list position, and the
%% new entry is added to a new (empty) primary list.
%%
%% The window can be converted to a list using `to_list/1`.
%% @end
%%
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include/ruby/oniguruma.h:
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regenc.c:
regenc.h:
regerror.c:
regex.c:
regint.h:
regparse.c:
regparse.h:
enc/ascii.c:
enc/big5.c:
enc/cp949.c:
enc/emacs_mule.c:
enc/encdb.c:
enc/euc_jp.c:
enc/euc_kr.c:
enc/euc_tw.c:
enc/gb18030.c:
enc/gb2312.c:
enc/gbk.c:
enc/iso_8859_1.c:
enc/iso_8859_10.c:

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enc/iso_8859_11.c:  
enc/iso_8859_13.c:  
enc/iso_8859_14.c:  
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enc/iso_8859_8.c:  
enc/iso_8859_9.c:  
enc/koi8_r.c:  
enc/koi8_u.c:  
enc/shift_jis.c:  
enc/unicode.c:  
enc/us_ascii.c:  
enc/utf_16be.c:  
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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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`vm_dump.c:procstat_vm:`

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```
$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z  
jhb $
```

vsnprintf.c:

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strftime.c:

```
include/ruby/st.h:  
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missing/alloca.c:  
missing/dup2.c:  
missing/erf.c:  
missing/finite.c:  
missing/hypot.c:  
missing/isinf.c:  
missing/isnan.c:  
missing/lgamma_r.c:  
missing/memcmp.c:  
missing/memmove.c:  
missing/strchr.c:  
missing/strerror.c:  
missing/strstr.c:  
missing/tgamma.c:  
ext/date/date_strftime.c:  
ext/digest/sha1/sha1.c:  
ext/digest/sha1/sha1.h:  
ext/sdbm/_sdbm.c:  
ext/sdbm/sdbm.h:
```

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```
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```

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missing/strncpy.c:

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L. Peter Deutsch
ghost@aladdin.com

ext/digest/rmd160/rmd160.c:
ext/digest/rmd160/rmd160.h:

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AUTHOR:: Antoon Bosselaers, ESAT-COSIC
(Arranged for libc by Todd C. Miller)
DATE:: 1 March 1996

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joda-time:joda-time
org.apache.commons:commons-lang3
commons-codec:commons-codec
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4th party 2: joda-time

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4th party 3: commons-lang3

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4th party 5: slf4j-api

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setuptools

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```
*****  
Modules:  
*****
```

```
slf4j-api  
slf4j-simple  
slf4j-nop  
slf4j-jdk14  
slf4j-log4j12  
slf4j-ext  
jcl-over-slf4j  
log4j-over-slf4j  
jul-to-slf4j  
osgi-over-slf4j  
integration  
slf4j-site  
slf4j-migrator
```

```
*****  
4P Dependencies:  
*****
```

```
=== This dependency is only used in slf4j-ext
```

```
ch.qos.call0n call0n-api  
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```

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```
---
```

```
=== This dependency is only used in limited subcomponents (e.g.: slf4j-log4j12, log4j-over-slf4j, some others)
```

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simpleclient_pushgateway

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Fourth Party Dependency :  
1.simpleclient  
2.simpleclient_common  
3.simpleclient_servlet_common
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SIX

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stevedore

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Telegraf

Telegraf 1.18.3

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files=`git diff-tree --no-commit-id --name-only --diff-filter=ACMR -r HEAD | \
    egrep '\.(go|proto|py|sh)$' | grep -v '\.pb\.go$'`
status=0
for file in $files; do
    if ! egrep -q "$notice" $file; then
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exit $status
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```

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```

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uln-yum-mirror

uln-yum-mirror 0.3.0-7

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=====
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=====
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=====
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Vault 1.7.1

<https://github.com/hashicorp/vault>

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@types/node-fetch
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@types/prop-types
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@types/rimraf
----- Copyrights
----- Dependency
@types/scheduler
----- Copyrights
----- Dependency
@types/symlink-or-copy
----- Copyrights
----- Dependency
@types/unist
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----- Dependencies Summary
@types/braces
@types/color-name
@types/fs-extra
@types/glob-base
@types/is-function
@types/katex
@types/mdast
@types/micromatch
@types/npmlog
@types/overlayscrollbars
@types/parse-json
@types/pretty-hrtime
@types/prop-types
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----- Dependency
css-has-pseudo
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css-prefers-color-scheme
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postcss-browser-comments
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----- Dependency
postcss-color-functional-notation
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----- Dependency
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postcss-dir-pseudo-class
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postcss-env-function
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postcss-place
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postcss-preset-env
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postcss-pseudo-class-any-link
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sanitize.css
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----- Dependency
stylelint-media-use-custom-media
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----- Dependency
stylelint-use-nesting
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----- Dependency
stylelint-value-no-unknown-custom-properties
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@csstools/normalize.css
css-blank-pseudo
css-has-pseudo
css-prefers-color-scheme
postcss-browser-comments
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postcss-color-functional-notation
postcss-color-mod-function
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postcss-focus-visible
postcss-focus-within
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---
layout: api
page_title: /sys/license - HTTP API
sidebar_title: <code>/sys/license</code>
description: |-
  The `/sys/license` endpoint is used to view and update the license used in
  Vault.
---
# `/sys/license`
~> **Enterprise Only** - These endpoints require Vault Enterprise.
The `/sys/license` endpoint is used to view and update the license used in
Vault.
## Read License
This endpoint returns information about the currently installed license.
| Method | Path          |
| :---- | :----- |
| `GET`  | `/sys/license` |
### Sample Request
```shell-session
$ curl \
 --header "X-Vault-Token: ..." \
 http://127.0.0.1:8200/v1/sys/license
...
Sample Response
```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": ["time left on license is 29m33s"]
}
...
## Install License
This endpoint is used to install a license into Vault.
| Method | Path          |
| :---- | :----- |
| `PUT`  | `/sys/license` |
### Parameters
- `text` `(string: <required>)` - The text of the license.
- DR Secondary Specific Parameters
- `dr_operation_token` `(string: <required>)` - DR operation token used to
  authorize this request.
### Sample Payload
```json
{
 "text": "01ABCDEFGF..."
}
...
Sample Request
```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  --request PUT \
  --data @payload.json \
  http://127.0.0.1:8200/v1/sys/license
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autosize>View project on GitHub</a></h2> <form><div id=app></div></form> <div
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@opentelemetry/api
@opentelemetry/context-base
@webassemblyjs/leb128
@xtuc/long
ansi-html
aria-query
axobject-query
cloud.google.com/go
cloud.google.com/go/spanner
cloud.google.com/go/storage
code.cloudfoundry.org/gofileutils
detect-libc
doctrine
ejs
eslint-visitor-keys
fuse.js
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github.com/Azure/go-autorest/tracing
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github.com/aerospike/aerospike-client-go
github.com/aliyun/alibaba-cloud-sdk-go
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github.com/cockroachdb/cockroach-go
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github.com/couchbase/gocb/v2
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github.com/denverdino/aliyungo
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github.com/golang-sql/civil
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github.com/jcmtturner/dnsutils
github.com/jcmtturner/goidentity/v6
github.com/jcmtturner/gokrb5/v8
github.com/jcmtturner/rpc/v2
github.com/matttproud/golang_protobuf_extensions
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github.com/modern-go/reflect2
github.com/oklog/run
github.com/opencontainers/go-digest
github.com/opencontainers/image-spec
github.com/opencontainers/runc
github.com/oracle/oci-go-sdk
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github.com/pquerna/otp
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github.com/prometheus/client_model
github.com/prometheus/common
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github.com/snowflakedb/gosnowflake
github.com/softlayer/softlayer-go
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google.golang.org/grpc
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gopkg.in/jcmtturner/goidentity.v3
gopkg.in/square/go-jose.v2
gopkg.in/yaml.v2
human-signals
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k8s.io/api
k8s.io/apimachinery
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lazy-universal-dotenv
native-url
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github.com/golang/snappy

github.com/google/go-cmp

github.com/google/go-github

github.com/google/go-querystring

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github.com/miekg/dns

github.com/shirou/gopsutil

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golang.org/x/crypto

golang.org/x/net

golang.org/x/oauth2

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infer-owner
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lru-cache
minimalistic-assert
minimatch
minipass
minipass-collect
minipass-flush
minipass-pipeline
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mute-stream
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npmlog
once
parse-asn1
postcss-color-gray
postcss-modules-extract-imports
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<h2><a href=http://github.com/JedWatson/react-input-autosize>View project on
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```
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4P Dependency: org.codehaus.woodstox:stax2-api:jar

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needs-restarting.py
repo-check.py
repo-graph.py
repo-rss.py
repoclosure.py
repo-diff.py
repo manage.py
repoquery.py
reposync.py
repotrack.py
```



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show-changed-rco.py
verifytree.py
yum-builddep.py
yum-complete-transaction.py
yum-debug-dump.py
yum-debug-restore.py
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----- Dependency
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github.com/fsnotify/fsnotify
github.com/gogo/protobuf
github.com/golang/protobuf
github.com/google/go-cmp
github.com/google/uuid
github.com/googleapis/gax-go/v2
github.com/imdario/mergo
github.com/jessevdk/go-flags
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github.com/remyoudompheng/bigfft
github.com/spf13/pflag
golang.org/x/crypto
golang.org/x/exp
golang.org/x/image
golang.org/x/lint
golang.org/x/mobile
golang.org/x/net
golang.org/x/oauth2
golang.org/x/sync
golang.org/x/sys
golang.org/x/text
golang.org/x/time
golang.org/x/tools
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gopkg.in/fsnotify.v1
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github.com/Azure/go-ansiterm
github.com/BurntSushi/toml
github.com/agnivade/levenshtein
github.com/alecthomas/units
github.com/andreyvit/diff
github.com/asaskevich/govalidator
github.com/beorn7/perks
github.com/bgentry/speakeasy
github.com/blang/semver

```

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github.com/client9/misspell
github.com/cpuguy83/go-md2man
github.com/creack/pty
github.com/dgrijalva/jwt-go
github.com/dustin/go-humanize
github.com/emicklei/go-restful
github.com/go-kit/kit
github.com/go-logfmt/logfmt
github.com/go-stack/stack
github.com/hpcloud/tail
github.com/json-iterator/go
github.com/jstemmer/go-junit-report
github.com/kisielk/errcheck
github.com/kisielk/gotool
github.com/konsorten/go-windows-terminal-sequences
github.com/kr/logfmt
github.com/kr/pretty
github.com/kr/pty
github.com/kr/text
github.com/mailru/easyjson
github.com/mattn/go-colorable
github.com/mattn/go-isatty
github.com/mattn/go-runewidth
github.com/mitchellh/go-homedir
github.com/mitchellh/mapstructure
github.com/olekukonko/tablewriter
github.com/onsi/ginkgo
github.com/onsi/gomega
github.com/pelletier/go-toml
github.com/peterbourgon/diskv
github.com/sirupsen/logrus
github.com/spf13/cast
github.com/spf13/jwalterweatherman
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github.com/ugorji/go/codec
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goproperties - properties file decoder for Go

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.
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golang.org/x/crypto
golang.org/x/exp
golang.org/x/image
golang.org/x/mobile
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golang.org/x/net
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Go support for Protocol Buffers - Google's data interchange format
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Support for streaming Protocol Buffer messages for the Go language (golang).
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github.com/prometheus/procfs
github.com/sergi/go-diff
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gopkg.in/natefinch/lumberjack.v2
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gopkg.in/resty.v1
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github.com/BurntSushi/toml
github.com/agnivade/levenshtein
github.com/alecthomas/units
github.com/andreyvit/diff
github.com/asaskevich/govalidator
github.com/beorn7/perks
github.com/bgentry/speakeasy
github.com/blang/semver
github.com/client9/misspell
github.com/cpuguy83/go-md2man
github.com/creack/pty
github.com/dgrijalva/jwt-go
github.com/dustin/go-humanize
github.com/emicklei/go-restful
github.com/go-kit/kit
github.com/go-logfmt/logfmt
github.com/go-stack/stack
github.com/hpcloud/tail
github.com/json-iterator/go
github.com/jstemmer/go-junit-report
github.com/kisielk/errcheck
github.com/kisielk/gotool
github.com/konsorten/go-windows-terminal-sequences
github.com/kr/logfmt
github.com/kr/pretty
github.com/kr/pty
github.com/kr/text
github.com/mailru/easyjson
github.com/mattn/go-colorable
github.com/mattn/go-isatty
github.com/mattn/go-runewidth
github.com/mitchellh/go-homedir
github.com/mitchellh/mapstructure
github.com/olekukonko/tablewriter

```

```

github.com/onsi/ginkgo
github.com/onsi/gomega
github.com/pelletier/go-toml
github.com/peterbourgon/diskv
github.com/sirupsen/logrus
github.com/spf13/cast
github.com/spf13/jwalterweatherman
github.com/spf13/viper
github.com/stretchr/objx
github.com/stretchr/testify
github.com/tmc/grpc-websocket-proxy
github.com/ugorji/go/codec
github.com/urfave/cli
github.com/vektah/gqlparser
github.com/xiang90/probing
github.com/xordataexchange/crypt
go.etcd.io/bbolt
go.uber.org/atomic
go.uber.org/multierr
go.uber.org/zap
gopkg.in/alecthomas/kingpin.v2
gopkg.in/natefinch/lumberjack.v2
gopkg.in/resty.v1
honnef.co/go/tools

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github.com/ghodss/yaml

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github.com/magiconair/properties

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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golang.org/x/net
golang.org/x/sync
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github.com/go-openapi/swag
github.com/golang/groupcache
github.com/google/gofuzz
github.com/googleapis/gnostic
github.com/modern-go/concurrent

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github.com/modern-go/reflect2
gopkg.in/yaml.v2
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github.com/golang/protobuf
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```
golang.org/x/crypto
golang.org/x/net
golang.org/x/sync
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github.com/kr/pretty
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cert-manager 0.13.1

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github.com/Azure/go-autorest/autorest
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github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/autorest/to
github.com/Azure/go-autorest/autorest/validation
github.com/Azure/go-autorest/logger
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github.com/Venafi/vcert
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github.com/cockroachdb/datadriven
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github.com/docker/docker
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github.com/go-openapi/analysis
github.com/go-openapi/errors
github.com/go-openapi/jsonpointer
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github.com/go-openapi/loads
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github.com/go-openapi/swag
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github.com/andreyvit/diff
github.com/armon/go-metrics
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github.com/Azure/go-autorest/tracing
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github.com/spf13/pflag
golang.org/x/crypto
golang.org/x/exp
golang.org/x/lint
golang.org/x/net
golang.org/x/oauth2
golang.org/x/sync
golang.org/x/sys
golang.org/x/text
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golang.org/x/sync
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github.com/google/go-cmp

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github.com/google/uuid
github.com/googleapis/gax-go/v2
github.com/imdario/mergo
github.com/jessevdk/go-flags
github.com/spf13/pflag
golang.org/x/crypto
golang.org/x/exp
golang.org/x/lint
golang.org/x/net
golang.org/x/oauth2
golang.org/x/sync
golang.org/x/sys
golang.org/x/text
golang.org/x/time
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github.com/BurntSushi/toml
github.com/client9/misspell
github.com/dgrijalva/jwt-go
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github.com/json-iterator/go
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github.com/kr/pretty
github.com/kr/pty
github.com/kr/text
github.com/mailru/easyjson
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github.com/coreos/etcd
github.com/coreos/go-oidc
github.com/coreos/go-semver
github.com/coreos/go-systemd
github.com/coreos/pkg
github.com/docker/go-units
github.com/go-openapi/analysis
github.com/go-openapi/errors
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/loads
github.com/go-openapi/runtime
github.com/go-openapi/spec
github.com/go-openapi/strfmt
github.com/go-openapi/swag
github.com/go-openapi/validate
github.com/go-swagger/scan-repo-boundary
github.com/golang/glog
github.com/golang/groupcache
github.com/golang/mock
github.com/google/btree
github.com/grpc-ecosystem/go-grpc-middleware
github.com/grpc-ecosystem/go-grpc-prometheus
github.com/jonboulle/clockwork
github.com/matttproud/golang_protobuf_extensions
github.com/mwitkow/go-conntrack

```

```

github.com/oklog/ulid
github.com/pquerna/cachecontrol
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/prometheus/tsdb
github.com/soheilhy/cmux
github.com/spf13/afero
go.mongodb.org/mongo-driver
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google.golang.org/grpc
gopkg.in/square/go-jose.v2
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github.com/golang/protobuf
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github.com/alecthomas/units
github.com/asaskevich/govalidator
github.com/beorn7/perks
github.com/cespare/xxhash
github.com/client9/misspell
github.com/coreos/bbolt
github.com/dgrijalva/jwt-go
github.com/dgryski/go-sipl3
github.com/go-kit/kit
github.com/go-logfmt/logfmt
github.com/go-openapi/inflect
github.com/go-stack/stack
github.com/kisielk/errcheck
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github.com/konsorten/go-windows-terminal-sequences
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Grafana

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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Support for streaming Protocol Buffer messages for the Go language (golang).
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DNS library in Go
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go-zookeeper - Native ZooKeeper client for Go
<https://github.com/samuel/go-zookeeper>
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We also use code from a large number of npm packages. For details, see:

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@webassemblyjs/leb128@1.11.1
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cloud.google.com/go
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github.com/gorilla/mux
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graceful-fs@4.2.10
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picocolors@1.0.0
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ace.define("ace/snippets/haskell",["require","exports","module"],function(e,t,n)
{"use strict";t.snippetText="snippet lang\n    {-#
LANGUAGE ${1:OverloadedStrings} #-}\nsnippet info\n    -- |\n    --
Module      : ${1:Module.Namespace}\n    --
Copyright   : ${2:Author} ${3:2011-2012}\n    -- License      : ${4:BSD3}\n
--\n    -- Maintainer : ${5:email@something.com}\n    --
Stability   : ${6:experimental}\n    -- Portability : ${7:unknown}\n    --
\n    -- ${8:Description}\n    --\nsnippet import\n
import      ${1:Data.Text}\nsnippet import2\n
import      ${1:Data.Text} (${2:head})\nsnippet importq\n    import
qualified ${1:Data.Text} as ${2:T}\nsnippet inst\n
instance ${1:Monoid} ${2:Type} where\n    ${3}\nsnippet type\n
type ${1:Type} = ${2:Type}\nsnippet data\n    data ${1:Type} = ${2:$1} ${3:Int}
\nsnippet newtype\n    newtype ${1:Type} = ${2:$1} ${3:Int}\nsnippet class\n
class ${1:Class} a where\n    ${2}\nsnippet module\n    module
`substitute(substitute(expand('%:r'),'[/\\\\\\'],'.','g'),'^\\%((\\1*\\.\\.\\.))
\\?','','')` (\n    ) where\n    `expand('%:') =~ 'Main' ? "\\n\n\nmain = do\n
\n    print \\\"hello world\\\" : \"\\\"\\\"`\nsnippet const\n    ${1:name} :: ${2:a}
\n    $1 = ${3:undefined}\nsnippet fn\n    ${1:fn} :: ${2:a} -> ${3:a}
\n    $1 ${4} = ${5:undefined}\nsnippet fn2\n    ${1:fn} :: ${2:a} -> ${3:a} -
> ${4:a}\n    $1 ${5} = ${6:undefined}\nsnippet
ap\n    ${1:map} ${2:fn} ${3:list}\nsnippet do\n    do\n        \nsnippet
\u03bb\n    \\${1:x} -> ${2}\nsnippet \\n\n    \\${1:x} -> ${2}\nsnippet <-
\n    ${1:a} <- ${2:m a}\nsnippet \u2190\n    ${1:a} <- ${2:m a}\nsnippet -
>\n    ${1:m a} -> ${2:a}\nsnippet \u2192\n    ${1:m a} -> ${2:a}\nsnippet
tup\n    (${1:a}, ${2:b})\nsnippet tup2\n    (${1:a}, ${2:b}, ${3:c})\nsnippet
tup3\n    (${1:a}, ${2:b}, ${3:c}, ${4:d})\nsnippet rec\n    ${1:Record}
{ ${2:recFieldA} = ${3:undefined}\n        , ${4:recFieldB}
= ${5:undefined}\n        }\nsnippet case\n    case ${1:something}
of\n    ${2} -> ${3}\nsnippet let\n    let ${1} = ${2}\n    in ${3}\nsnippet
where\n    where\n        ${1:fn} = ${2:undefined}\n",t.scope="haskell")

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----- Dependency
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----- Dependency
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JSON v3.3.2 | http://bestiejs.github.io/json3 | Copyright 2012-2014, Kit Cambridge |
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abortcontroller-polyfill@1.4.0
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babel-plugin-syntax-jsx@6.18.0
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get-intrinsic@1.1.1
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github.com/BurntSushi/toml
github.com/FZambia/eagle
github.com/VividCortex/mysqlerr
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github.com/benbjohnson/clock
github.com/beorn7/perks
github.com/blang/semver
github.com/centrifugal/centrifuge
github.com/centrifugal/protocol
github.com/cespare/xxhash
github.com/cespare/xxhash/v2
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github.com/facebookgo/inject
github.com/fatih/color
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github.com/go-logfmt/logfmt
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webpack@5.72.0
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widest-line@2.0.1
xdg-basedir@3.0.0
xtend@4.0.2

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github.com/googleapis/gnostic
github.com/matttproud/golang_protobuf_extensions
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github.com/modern-go/reflect2
github.com/pquerna/cachecontrol
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github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/go-logr/logr
github.com/google/gofuzz
github.com/googleapis/gnostic
github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/mwitkow/go-conntrack
github.com/oklog/run
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/exporter-toolkit
github.com/prometheus/procfs
gopkg.in/yaml.v2
k8s.io/api
k8s.io/apimachinery
k8s.io/autoscaler/vertical-pod-autoscaler
k8s.io/client-go
k8s.io/klog/v2
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sigs.k8s.io/structured-merge-diff/v4
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github.com/gogo/protobuf
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github.com/google/go-cmp
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github.com/spf13/pflag
golang.org/x/crypto
golang.org/x/net
golang.org/x/sync
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github.com/kisielk/gotool
github.com/kr/pretty
github.com/kr/pty
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golang.org/x/crypto
golang.org/x/net
golang.org/x/sync
golang.org/x/sys
golang.org/x/text
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github.com/jessevdk/go-flags
github.com/spf13/pflag
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github.com/kisielk/gotool
github.com/kr/pretty
github.com/kr/pty
github.com/kr/text
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OCI SDK for Go 41.2.0

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pflag

github.com/spf13/pflag 1.0.3

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Prometheus 2.32.1

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 github.com/go-openapi/analysis
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 github.com/go-openapi/runtime
 github.com/go-openapi/spec
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 github.com/go-openapi/validate
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 github.com/google/gofuzz
 github.com/google/pprof
 github.com/googleapis/gnostic
 github.com/gophercloud/gophercloud
 github.com/matttproud/golang_protobuf_extensions
 github.com/modern-go/concurrent
 github.com/modern-go/reflect2
 github.com/mwitkow/go-conntrack
 github.com/oklog/run
 github.com/oklog/ulid
 github.com/opencontainers/go-digest
 github.com/opencontainers/image-spec
 github.com/opentracing-contrib/go-stdlib
 github.com/opentracing/opentracing-go

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github.com/prometheus/alertmanager
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/common/sigv4
github.com/prometheus/exporter-toolkit
github.com/prometheus/procfs
github.com/scaleway/scaleway-sdk-go
github.com/simonpasquier/klog-gokit
github.com/simonpasquier/klog-gokit/v3
github.com/uber/jaeger-client-go
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go.mongodb.org/mongo-driver
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google.golang.org/genproto
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gopkg.in/yaml.v2
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react-dom@17.0.2
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github.com/go-openapi/errors
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/loads
github.com/go-openapi/runtime
github.com/go-openapi/spec
github.com/go-openapi/strfmt
github.com/go-openapi/swag
github.com/go-openapi/validate
github.com/google/btree
github.com/kylelemons/godebug
github.com/mattproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/mwitkow/go-conntrack
github.com/oklog/ulid
github.com/prometheus/client_golang
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github.com/google/uuid
github.com/jessevdk/go-flags
github.com/miekg/dns
github.com/pborman/uuid
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github.com/go-stack/stack
github.com/json-iterator/go
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```

github.com/ryanuber/columnize
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resty

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github.com/dgrijalva/jwt-go
github.com/emicklei/go-restful
github.com/hpcloud/tail
github.com/json-iterator/go
github.com/jstemmer/go-junit-report
github.com/kisielk/errcheck
github.com/kisielk/gotool
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github.com/kr/pretty
github.com/kr/pty
github.com/kr/text
github.com/mailru/easyjson
github.com/onsi/ginkgo
github.com/onsi/gomega
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@kyleshockey/xml
argparse
asap
async
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autolinker
babel-runtime
base64-js
buffer
classnames
combined-stream
cookie
core-js
create-react-class
cross-fetch
css.escape
d
deep-equal
deep-extend
delayed-stream
emitter-component
es6-iterator
es6-symbol
es6-weak-map
event-emitter
fast-json-patch
fbjs
form-data
iconv-lite
immutable
invariant
is-dom
is-promise
is-stream
isomorphic-fetch
isomorphic-form-data
js-tokens
js-yaml
lodash
lodash-es
lodash.debounce
loose-envify
lru-queue
mime-db
mime-types
next-tick
node-fetch
object-assign
performance-now
promise
prop-types
punycode
querystring
querystring-browser
querystringify
raf
randombytes
react
react-debounce-input
react-dom
react-immutable-proptypes
react-immutable-pure-component
react-inspector
react-motion
react-redux
redux

```

regenerator-runtime
remarkable
repeat-string
requires-port
reselect
safe-buffer
safer-buffer
serialize-error
setimmediate
sha.js
stream
symbol-observable
traverse
ua-parser-js
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underscore.string
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== Dependency

github.com/cert-manager/cert-manager/controller-binary

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file.\n\npackage , uintptr(unsafe.Pointer(_p1)), 0)\n\tif e1 != 0 {\n\t\tterr =
errnoErr(e1)\n\t}\n\treturn\n)\n\n// THIS FILE IS GENERATED BY THE COMMAND AT THE TOP;
DO NOT EDIT\n\nfunc Sync() (err error) {\n\tt, _, e1 := Syscall(
=
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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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cluster-api-provider-oci 0.11.5

github.com/oracle/cluster-api-provider-oci

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typing\_extensions

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |

|               |       |          |     |     |
|---------------|-------|----------|-----|-----|
| 2.1.3         | 2.1.2 | 2002     | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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## flannel 0.24.2

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url=https://github.com/certifi/python-certifi/blob/master/LICENSE

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php\_curl, or with

an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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```
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----- (separator) -----

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## Kubernetes Python Client 28.1.0

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```
ca-bundle.crt -- Bundle of CA Root Certificates
```

```
Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
```

```
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
```

```
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCertificateFile.#
```

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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=====  
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=====

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go.opentelemetry.io/otel
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github.com/miekg/dns

github.com/spf13/pflag

golang.org/x/crypto

golang.org/x/net

golang.org/x/oauth2

golang.org/x/sync

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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=====
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=====
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`localtime.go`, `localtime_test.go`:

Originals:

`https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go`

`https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go`

Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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## Python

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### History and License

#### History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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#### Release

Derived from

Year

Owner

GPL compatible?

0.9.0 thru 1.2

n/a

1991-1995

CWI

yes

1.3 thru 1.5.2

1.2

1995-1999

CNRI

yes

1.6

1.5.2

2000

CNRI

no

2.0

1.6

2000

BeOpen.com

no

1.6.1

1.6

2001

CNRI

no

2.1

2.0+1.6.1

2001

PSF

no

2.0.1

2.0+1.6.1

2001

PSF

yes

2.1.1

2.1+2.0.1

2001

PSF

yes

2.1.2

2.1.1

2002

PSF

yes

2.1.3

2.1.2

2002

PSF

yes

2.2 and above

2.1.1

2001-now

PSF

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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard XML Remote Procedure Calls

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphhash24/little)

djb (supercop/crypto\_auth/siphhash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

The file Python/dtoa.c, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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|------------------|---------------------------|
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| cfuhash          |                           |

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L. Peter Deutsch
ghost@aladdin.com
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/*
The original and principal author of md5.c is L. Peter Deutsch
.
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ipmitool-1.8.18/src/plugins/serial/Makefile.am: Pigeon Point Systems
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/\*

\* hash.c: chained hash tables

\*

\* Reference: Your favorite introductory book on algorithms

\*

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*****
*
* A note to trio contributors:
*
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* uses fputs, and the asprintf functions and the
modifier, which
* by design are required to allocate form the heap.
*
*****/
trionan.c:
/*****
*
* $Id$
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*****
*
* Functions to handle special quantities in floating-point numbers
* (that is, NaNs and infinity). They provide the capability to detect
* and fabricate special quantities.
*
* Although written to be as portable as possible, it can never be
* guaranteed to work on all platforms, as not all hardware supports
* special quantities.
*
* The approach used here (approximately) is to:
*
* 1. Use C99 functionality when available.
* 2. Use IEEE 754 bit-patterns if possible.
* 3. Use platform-specific techniques.
*
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* $Id$
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zlib
-----
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version 1.2.11, January 15th, 2017
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version 1.2.7, May 2nd, 2012
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```
Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
```

```
The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

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 Apache Jakarta Regexp 1.4  
 Apache Santuario XML Security for Java 1.5.4  
 Apache Xalan-Java 2.7.1  
 Apache Xerces Java 2.10.0  
 Apache XML Resolver 1.1  
 Dynalink 0.5

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888        8 888ooo88P'   `8888'
888        8 888        .8PY888.
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# 6

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uses from those defined in javaee-api-8.0.1

- 1) jakarta.json 1.16  
Eclipse Public License 2.0 + GPL v.2 with CPE
- 2) eclipselink 2.7.7  
Eclipse Public License 2.0, Eclipse Distribution License 1.0
- 3) tomcat embedded 9.0.54  
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- 4) Jakarta Restful Web Services JAX-RS API 2.1.6  
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```
-----
Jakarta.json Fourth Party Dependencies
-----
```

```
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```

```
-----  
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ASM 7.3.1

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This software contains code derived from netty-native

developed by the Netty project  
(<https://netty.io>, <https://github.com/netty/netty-tcnative/>)  
and from finagle-native developed at Twitter  
(<https://github.com/twitter/finagle>).

This software contains code derived from jgroups-kubernetes  
developed by the JGroups project (<http://www.jgroups.org/>).

Java compilation software for JSP pages is provided by the Eclipse  
JDT Core Batch Compiler component, which is open source software.  
The original software and related information is available at  
<https://www.eclipse.org/jdt/core/>.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar  
for JSON written by Robert Fischer.  
<https://github.com/RobertFischer/json-parser>

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration  
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages  
are derivative work originating from the Netty project and the finagle-native  
project developed at Twitter

\* Copyright 2014 The Netty Project  
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For portions of the Tomcat cloud support  
The org.apache.catalina.tribes.membership.cloud package contains derivative  
work originating from the jgroups project.  
<https://github.com/jgroups-extras/jgroups-kubernetes>  
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-----  
tomcat embedded Fourth party dependency:  
tomcat-annotations-api (Apache 2.0)

-----  
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The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/jaxrs-api>

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# 7

## Licensing for Third-Party Software in Oracle Linux

This chapter includes information about the licensing for Oracle Linux components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

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| Product            | Licensing Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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## Oracle Linux 9 Licensing Information

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## Oracle Linux 9 Images

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# 8

## Licensing for Third-Party Software in Oracle Solaris

This chapter includes information about the licensing for Oracle Solaris components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

### Oracle Solaris 11.4 Licensing Information

Oracle Solaris 11.4 is an operating system included with Oracle Private Cloud Appliance.

This section provides the notices and licenses for the third-party software or components contained in Oracle Solaris 11.4.

### Oracle Technology Notices and Licenses

The following Oracle technologies that have a license document may be included in or distributed with this Oracle product. These Oracle technologies may include various third-party software, and the applicable notices and licenses can be found at the following locations:

- Oracle Java

Third-party notices and licenses for Oracle Java are available at:

([Java SE Downloads](https://www.oracle.com/java/technologies/downloads/)) <https://www.oracle.com/java/technologies/downloads/>)

- Oracle Solaris

For information about third-party notices and licenses for Oracle Solaris 11.4, see [Third-Party Notices and/or Licenses for Oracle Solaris 11.4](#).

### Third-Party Notices and/or Licenses for Oracle Solaris 11.4

Oracle Solaris 11.4 OS packages are listed in the following section. The licenses are listed alphabetically A-Z, then a-z.

### Open Source or Other Separately Licensed Software Included With Oracle Solaris 11.4

This section lists the software packages used for Oracle Solaris 11.4.

- American English Dictionary
- App-ClusterSSH
- Authen-PAM
- Babel

- Backbone.js
- Brazilian Portuguese Dictionary
- CACKey
- CDE
- CGI
- CLDR
- Cheetah
- CherryPy
- ConsoleKit
- Cracklib
- Csh
- Cython
- DBD-SQLite
- DBD-mysql
- DBI
- DTraceToolkit
- Django
- FormEncode
- French Dictionary
- GConf
- GMP
- GRUB2
- German Dictionary
- HAL (Hardware Abstraction Layer)
- HKSCS
- ICU
- ISO/IEC
- ImageMagick
- Imaging
- Italian Dictionary
- Jinja2
- Kerberos
- LZMA SDK
- Locale definition info from IEEE Std 1003.2-1992 v. Year 1992
- M2Crypto
- MPFR
- Mako

- Markdown
- MarkupSafe
- MiniSAT
- MySQL-python
- NDMP SDK
- Net-SSLeay
- Netscape Communications
- Open Fabrics kernel components
- PAPI
- PTP
- Paste
- PasteDeploy
- PowerTOP
- PrettyTable
- PyYAML
- Pygments
- Python
- Python
- Python
- RSA
- Reliable Datagram Sockets (RDSv3)
- RequireJS
- RequireJS i18n plugin
- RequireJS text plugin
- Routes
- Ruby
- Ruby
- RubyGems
- SDL
- SQLAlchemy
- SQLite
- Solarflare
- Spanish Dictionary
- Tempita
- The Open Group Technical Standard Portable Layout Services: Context-dependent and Directional Text - ISBN 1-85912-142-X
- Tk

- Twisted
- TwistedWeb2
- Underscore.js
- Unicode
- V4L2 API definition header files
- WebOb
- WebTest
- X11-Protocol
- XML-LibXML
- XML-NamespaceSupport
- XML-Parser
- XML-SAX
- XML-SAX-Base
- XML-Simple
- Xen PV Drivers
- a2ps
- aac
- aalib
- accerciser
- accessx
- accountsservice
- acpica
- acpidump
- adwaita-icon-theme
- agpgart
- aioeventlet
- amqp
- anonymous-pro
- ant
- antlr
- anyjson
- apache2
- appdirs
- apr
- apr
- apr-util
- apr-util

- arabeyes
- arn
- arp
- arphic-ukai
- arphic-uming
- asciidoc
- asn1crypto
- aspell
- astroid
- at-spi2-atk
- at-spi2-core
- atk
- atkmm
- atu
- augeas
- autoconf
- autoconf
- automake
- automake
- automake
- avahi
- background-logo-extension
- backup
- baekmuk
- baobab
- bash
- beautifulsoup4
- bge
- bib
- bind
- binutils
- bison
- bitmap
- bnu
- boto
- bpf
- bpg-georgian

- brltty
- bzip2
- cachetools
- cairo
- cairomm
- cantarell-fonts
- caribou
- ccid
- cdrtools
- cffi
- check
- checkeq
- chrome-gnome-shell
- cliff
- cloog
- cloudbase-init
- clutter
- clutter-gst
- clutter-gst
- clutter-gtk
- cmake
- cmd2
- cogl
- colord
- colord-gtk
- compress
- conflict
- constype
- contextlib2
- convmv
- coolkey
- coreutils
- cov-core
- coverage
- cppunit
- cron
- croscorefonts

- cryptography
- cssutils
- cups
- curl
- cvs
- cyrus-sasl
- d2to1
- d3
- daq
- dbus
- dbus-glib
- dbus-python
- dconf
- dconf-editor
- debtcollector
- decorator
- dejagnu
- dejavu-fonts-ttf
- desktop-file-utils
- devhelp
- diffstat
- diffutils
- django-appconf
- dnsmasq
- dnspython
- docbook
- docbook-dsssl
- docbook-xsl
- dogpile.cache
- dogpile.core
- dotconf
- doxygen
- drm
- dulwich
- dwarf
- eeprom
- emacs

- enchant
- enscript
- enum34
- eog
- eog-plugins
- erlang
- espeak
- eventlet
- evince
- evolution-data-server
- exempi
- expect
- extras
- facter
- fasteners
- fetchmail
- fftw
- file-roller
- filechunkio
- findutils
- firefox
- fixtures
- flac
- flex
- fltk
- folks
- font-adobe-100dpi
- font-bh-ttf
- font-daewoo-misc
- font-isas-misc
- font-jis-misc
- font-misc-cyrillic
- font-misc-ethiopic
- font-misc-meltho
- fontconfig
- foomatic-db
- foomatic-db-engine



- foomatic-filters
- foomatic-filters-ppds
- fping
- freefont
- freeglut
- freetype
- fstobdf
- ftp
- ftp-proxy
- fts
- funcsig
- futures
- futurist
- gSOAP
- gamin
- gawk
- gcc
- gcc
- gcr
- gd
- gdb
- gdbm
- gdk-pixbuf
- gdm
- gedit
- gedit-plugins
- genders
- gentium
- geoclue
- geocode-glib
- getopt
- getopt\_long
- gettext
- gettext
- ghostscript
- ghostscript-fonts-std
- git

- gjs
- glade
- gladman
- glib
- glib-networking
- glibmm
- glu
- gmime
- gnome-autoar
- gnome-backgrounds
- gnome-calculator
- gnome-calendar
- gnome-clocks
- gnome-common
- gnome-control-center
- gnome-desktop
- gnome-devel-docs
- gnome-doc-utils
- gnome-font-viewer
- gnome-getting-started-docs
- gnome-initial-setup
- gnome-keyring
- gnome-menus
- gnome-online-accounts
- gnome-screenshot
- gnome-session
- gnome-settings-daemon
- gnome-shell
- gnome-shell-extensions
- gnome-system-monitor
- gnome-terminal
- gnome-themes-standard
- gnome-tweak-tool
- gnome-user-docs
- gnu-efi
- gnu-gs-fonts-other
- gnupg

- gnuplot
- gnutls
- gobject-introspection
- gocr
- go-lang
- gom
- google-droid-fonts
- gperf
- gpgme
- graphviz
- greenlet
- grep
- grilo
- grilo-plugins
- groff
- gsettings-desktop-schemas
- gsl
- gsound
- gssdp
- gsskex
- gsskrbkernel
- gst-plugins-base
- gst-plugins-good
- gst-python
- gstreamer
- gtk-doc
- gtk-engines
- gtk-vnc
- gtk2
- gtk3
- gtkmm
- gtkmm
- gtksourceview
- gtkspell
- gucharmap
- gupnp
- gupnp-igd

- gutenprint
- gvfs
- gzip
- hal-cups-utils
- harfbuzz
- help2man
- hexedit
- hg-git
- hicolor-icon-theme
- hiera
- hplip
- httping
- httplib2
- hwa1480\_fw
- i915
- ibus
- ibutils
- icu
- icu4c
- idna
- idnkit
- ifconfig
- ifparse
- iftop
- ilmbase
- imake
- indent
- indic-fonts-core
- infiniband-diags
- iniparse
- intel
- intel-gpu-tools
- intltool
- ipaddr
- ipaddress
- ipafont
- iperf

- ipfilter
- ipmi
- ipmitool
- ipython
- irssi
- isc-dhcp
- isl
- iso-codes
- iso8601
- isort
- itstool
- iwh
- iwk
- iwp
- jQuery
- jansson
- jiv
- jpeg
- jq
- jsl
- json-c
- json-glib
- jsonpatch
- jsonpath-rw
- jsonpointer
- jsonrpc-lib
- jsonschema
- junit
- kacst
- kcmd
- keymaster.js
- keystoneauth1
- keystone-middleware
- kombu
- ksh93
- lastcomm
- lazy-object-proxy

- lcms
- lcms2
- ldappool
- ldtp
- less
- lesscpy
- lftp
- lgi
- libFS
- libICE
- libSM
- libX11
- libXScrnSaver
- libXau
- libXaw
- libXcomposite
- libXcursor
- libXdamage
- libXdmcp
- libXevie
- libXext
- libXfixes
- libXfont
- libXfont2
- libXft
- libXi
- libXinerama
- libXmu
- libXp
- libXpm
- libXpresent
- libXrandr
- libXrender
- libXres
- libXt
- libXtst
- libXv

- libXvMC
- libXxf86misc
- libXxf86vm
- libarchive
- libassuan
- libbsdmalloc
- libcanberra
- libchamplain
- libconfuse
- libcroco
- libdaemon
- libdmx
- libdnet
- libdrm
- libedit
- libee
- libepoxy
- liberation-fonts-ttf
- libestr
- libevent
- libexif
- libexpat
- libffi
- libfontenc
- libfuse
- libgcrypt
- libgdata
- libgee
- libgpg-error
- libgsf
- libgtop
- libgweather
- libgxps
- libibmad
- libibumad
- libibverbs
- libical

- libidn
- libidn2
- libinetutil
- libipt
- libkmf
- libksba
- liblogging
- liblouis
- libmediaart
- libmemcached
- libmicrohttpd
- libmlx4
- libmng
- libmp
- libmusicbrainz
- libneon
- libnet
- libnotify
- liboauth
- libogg
- libomp
- libotr
- libpcap
- libpciaccess
- libpeas
- libpki
- libpng
- libpng
- libpng
- libproxy
- libpthread-stubs
- librabbitmq
- librdmacm
- libresolv2
- librstp
- libsvg
- libsync



- libsdp
- libsecret
- libsigsegv
- libsndfile
- libsoup
- libspectre
- libssh2
- libtasn1
- libtecla
- libtheora
- libtiff
- libtool
- libtorrent
- libusb
- libusb-wrapper
- libuuid
- libvdpau
- libvisual
- libvisual-plugins
- libvorbis
- libvpx
- libwebp
- libwnck3
- libxcb
- libxkbcommon
- libxkbfile
- libxklavier
- libxml2
- libxshmfence
- libxslt
- libzapojit
- lighttpd
- linecache2
- links
- listres
- llvm
- Indir

- locale
- lockfile
- logilab-common
- logutils
- lohit
- look
- lua
- luit
- lxml
- lynx
- lz4
- m4
- mailman
- make
- makedepend
- marionette-collective
- mccabe
- mcollective-facter-facts
- mcollective-package-agent
- mcollective-puppet-agent
- mcollective-service-agent
- mdb
- mdns
- meld
- memcached
- memcached-java
- mercurial
- mesa
- mesa-demos
- mgopen
- mkfontscale
- mlocate
- mm-common
- mock
- mod\_dtrace
- mod\_fcgid
- mod\_gss

- mod\_jk
- mod\_perl
- mod\_wsgi
- modsecurity
- monotonic
- mousetweaks
- mozjs
- mpathd
- mpc
- mpc
- mrtg
- msgpack-python
- mt
- mtr
- mutt
- mutter
- mysql
- nano
- nautilus
- nautilus-sendto
- ncftp
- ncurses
- net-snmp
- net80211
- netaddr
- netcat
- netifaces
- netlink
- netlink
- nettle
- networkx
- nghhttp2
- nicstat
- nmap
- noVNC
- nose
- nose-cover3

- nspr
- nss
- ntfsprogs
- ntp
- numpy
- oauthlib
- ocaml
- o'clock
- omp\_collector\_api.h
- onig
- openca-ocspd
- openexr
- openjade
- openjpeg
- openldap
- openscap
- opensm
- opensp
- openssh
- openssl
- openssl
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- pytest-cov
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- simplejson
- singledispatch

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- snia-ima
- snia-mpapi
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- squid
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- stevedore
- stomp
- stunnel
- subversion
- sudo
- suhosin
- sushi
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- testscenarios
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- texi2html
- texinfo
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- thai-scalable
- thunderbird
- tidy
- tigervnc
- timers
- tip
- tk
- tmux
- tomcat
- top
- totem
- totem-pl-parser
- tox
- traceback2
- traceroute
- tracker
- transset
- tree
- trollius
- trousers
- ttf-bitstream-vera
- twm
- uath
- udfs
- ufs

- uhttpmock
- ul
- unfonts-ko-core
- unfonts-ko-extra
- unicode
- unicodecsv
- unifont
- units
- unixODBC
- unrar
- unzip
- upower
- ural
- urllib3
- urtw
- usb.ids
- util-macros
- vacation
- vala
- vgaarb
- vgrind
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- vinagre
- vino
- virtualenv
- vmstat
- vte
- waitress
- warlock
- wdiff
- webalizer
- webkitgtk
- wget
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- wireshark

- wpa
- wqy-zenhei
- wrapt
- wxWidgets
- x11perf
- xattr
- xauth
- xbitmaps
- xcb-util
- xcb-util-cursor
- xcb-util-errors
- xcb-util-image
- xcb-util-keysyms
- xcb-util-renderutil
- xcb-util-wm
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- xconsole
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- xf86-input-keyboard
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- xf86-input-void
- xf86-video-ast
- xf86-video-ati
- xf86-video-cirrus
- xf86-video-dummy
- xf86-video-intel
- xf86-video-mach64

- xf86-video-mga
- xf86-video-openchrome
- xf86-video-r128
- xf86-video-vboxvideo
- xf86-video-vesa
- xf86-video-vmware
- xfd
- xfontsel
- xfs
- xhost
- xinit
- xkbcomp
- xkeyboard-config
- xkill
- xload
- xlock
- xlogo
- xmag
- xmlto
- xorg-docs
- xorg-server
- xorriso
- xproto
- xscope
- xscreensaver
- xstdcmap
- xstr
- xterm
- xterm
- xtrans
- xwd
- xz
- yasm
- yelp
- yelp-tools
- yelp-xsl
- zenity

- zip
- zlib
- zope.interface
- zsh
- zyd

## Displaying Licenses for Oracle Solaris Packages

Use the `--license` option of the `pkg info` command to display the license texts for the matching packages.

The following example displays license text for the `gzip` package on an installed Oracle Solaris system:

```
$ pkg info --license compress/gzip
```

See the Oracle Solaris documentation for more information about using the `pkg info` command.

# 9

## Licensing for Third-Party Software in Oracle JavaScript Extension Toolkit (JET)

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| js/libs/proj4js/dist/proj4.js                                                  |                                                |
| Proj4js                                                                        |                                                |
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| js/libs/webcomponents/custom-elements.min.js                                   | custom-                                        |
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Chai - v4.2.0  
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<https://github.com/yelouafi/petit-dom>

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ES6-Promise

<https://github.com/stefanpenner/es6-promise>

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jQuery UI - v1.12.1 - 2015-03-18

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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Author: Miller Medeiros  
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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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# 10

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Json-cpp

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`cJSON` is now the underlying JSON parser, replacing  
JsonCpp.aws-cpp-sdk-core/source/external/json-cpp/jsoncpp.cpp  
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OpenSSL build files

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android-build/cmakefiles/openssl-cmake/CMakeLists.txt

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Android tool chain cmake build files
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cmake/platform/android.toolchain.cmake
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Cyrus SASL

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dtoa.c

dtoa.c

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Facebook Fast Checksum Patch

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```
crc32.c -- compute the CRC-32 of a buf stream
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```

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Google SMP Patch

Google SMP patch

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Hashicorp Vault

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
```

```
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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```
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# unidata-5.2.0.txt
# Date: 2009-09-22, 16:23:42 PDT [KW]
#
# This file defines the Default Unicode Collation Element Table
# (DUCET) for the Unicode Collation Algorithm
#
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```

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# For terms of use, see http://www.unicode.org/terms\_of\_use.html
#
# See UTS #10, Unicode Collation Algorithm, for more information.
#
# Diagnostic weight ranges
# Primary weight range: 0200..3ACA (14539)
# Secondary weight range: 0020..0192 (371)
# Variant secondaries: 0159..015E (6)
# Digit secondaries: 015F..0192 (52)
# Tertiary weight range: 0002..001F (30)
#
@version 5.2.0
```

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|                  |                           |
|------------------|---------------------------|
| Jean-loup Gailly | Mark Adler                |
| jloup@gzip.org   | madler@alumni.caltech.edu |

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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GNU General Public License for more details.
```

```
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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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=====  
=====

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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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modify it under the terms of the GNU Lesser General Public  
License as published by the Free Software Foundation; either  
version 2.1 of the License, or (at your option) any later version.
```

```
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```

```
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  
02110-1301 USA
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
library `Frob' (a library for tweaking knobs) written by James  
Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

```
=====  
=====
```

Artistic License (Perl) 1.0

The "Artistic License"

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The End

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# 11

## Licensing for Third-Party Software in Oracle Cloud Native Environment

This chapter includes information about the licensing for Oracle Cloud Native Environment components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

### Oracle Cloud Native Environment Licensing Information

#### Licensing Information

This section includes the software licensing information for third-party software products included as part of Oracle Cloud Native Environment.

#### Licensing Information for Software Packages and Container Images

This section contains the licensing information for the software packages and container images in Oracle Cloud Native Environment.

Container images contain the Oracle Linux operating system, which is covered by the Oracle Linux license.

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#### Kubernetes

**Table 11-1 Software Package and Container Image Licensing Information for Kubernetes**

| Component | RPM Packages | Container Images                                  | License Information        | Dependencies                                                                           |
|-----------|--------------|---------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------|
| coredns   |              | container-registry.oracle.com/olcne/coredns:1.7.0 | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-2</a> . |

**Table 11-1 (Cont.) Software Package and Container Image Licensing Information for Kubernetes**

| Component              | RPM Packages                                                                                                                           | Container Images                                                                                                                                                                                                                                                                                           | License Information | Dependencies                                                                           |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------|
| etcd                   | etcd-3.4.13-1.<br>[platform].x86_64.rpm                                                                                                | container-registry.oracle.com/olcne/etcd:3.4.13                                                                                                                                                                                                                                                            | Apache-2.0          | For software package dependency licensing information see <a href="#">Table 11-3</a> . |
| flannel                |                                                                                                                                        | container-registry.oracle.com/olcne/flannel:v0.13.0                                                                                                                                                                                                                                                        | Apache-2.0          | For software package dependency licensing information see <a href="#">Table 11-4</a> . |
| kubernetes-cni-plugins | kubernetes-cni-plugins-0.9.1-1.<br>[platform].x86_64.rpm                                                                               | No container images.                                                                                                                                                                                                                                                                                       | Apache-2.0          | For software package dependency licensing information see <a href="#">Table 11-5</a> . |
| kubernetes             | kubelet-1.20.6-1.<br>[platform].x86_64.rpm<br>kubectl-1.20.6-1.<br>[platform].x86_64.rpm<br>kubeadm-1.20.6-1.<br>[platform].x86_64.rpm | container-registry.oracle.com/olcne/kube-proxy:v1.20.6<br>container-registry.oracle.com/olcne/kube-apiserver:v1.20.6<br>container-registry.oracle.com/olcne/kube-scheduler:v1.20.6<br>container-registry.oracle.com/olcne/kube-controller-manager:v1.20.6<br>container-registry.oracle.com/olcne/pause:3.4 | Apache-2.0          | For software package dependency licensing information see <a href="#">Table 11-6</a> . |

**Table 11-2 Software Package Dependency Licensing Information for coredns 1.7.0**

| Package Name                                     | Version | License            |
|--------------------------------------------------|---------|--------------------|
| github.com/Azure/azure-sdk-for-go                | v40.6.0 | MIT License        |
| github.com/Azure/go-autorest/autorest            | v0.10.2 | Apache License 2.0 |
| github.com/Azure/go-autorest/autorest/azure/auth | v0.4.2  | Apache License 2.0 |

**Table 11-2 (Cont.) Software Package Dependency Licensing Information for coredns 1.7.0**

| Package Name                                        | Version      | License                                 |
|-----------------------------------------------------|--------------|-----------------------------------------|
| github.com/DataDog/datadog-go                       | v3.5.0       | MIT License                             |
| github.com/Shopify/sarama                           | v1.21.0      | MIT License                             |
| github.com/apache/thrift                            | v0.13.0      | Apache License 2.0                      |
| github.com/aws/aws-sdk-go                           | v1.32.1      | Apache License 2.0                      |
| github.com/caddyserver/caddy                        | v1.0.5       | Apache License 2.0                      |
| github.com/cenkalti/backoff/v4                      | v4.0.2       | MIT License                             |
| github.com/dnstap/golang-dnstap                     | v0.2.0       | Apache-2.0                              |
| github.com/farsightsec/golang-framestream           | fa4b164d59b8 | Apache-2.0                              |
| github.com/golang/protobuf                          | v1.4.2       | BSD 3-Clause "New" or "Revised" License |
| github.com/gophercloud/gophercloud                  | v0.9.0       | Apache-2.0                              |
| github.com/grpc-ecosystem/grpc-opentracing          | 8e809c8a8645 | BSD-3-Clause                            |
| github.com/hashicorp/golang-lru                     | v0.5.4       | Mozilla Public License 2.0              |
| github.com/imdario/mergo                            | v0.3.9       | BSD 3-Clause "New" or "Revised" License |
| github.com/infobloxopen/go-trees                    | 2af4e13f9062 | Apache License 2.0                      |
| github.com/kr/pretty                                | v0.2.0       | MIT License                             |
| github.com/matttproud/golang_protobuf_extensions    | v1.0.1       | Apache License 2.0                      |
| github.com/miekg/dns                                | v1.1.29      | BSD-3-Clause                            |
| github.com/opentracing-contrib/go-observer          | a52f23424492 | Apache License 2.0                      |
| github.com/opentracing/opentracing-go               | v1.1.0       | Apache License 2.0                      |
| github.com/openzipkin-contrib/zipkin-go-opentracing | v0.3.5       | Apache License 2.0                      |
| github.com/philhofer/fwd                            | v1.0.0       | MIT License                             |
| github.com/prometheus/client_golang                 | v1.6.0       | Apache License 2.0                      |
| github.com/prometheus/client_model                  | v0.2.0       | Apache License 2.0                      |
| github.com/prometheus/common                        | v0.10.0      | Apache License 2.0                      |
| github.com/prometheus/prometheus                    | v2.5.0       | Apache License 2.0                      |
| github.com/tinylib/msgp                             | v1.1.2       | MIT                                     |
| go.etcd.io/etcd                                     | 221f0cc107cb | Apache License 2.0                      |
| go.uber.org/zap                                     | v1.14.1      | MIT License                             |
| golang.org/x/crypto                                 | 0ec3e9974c59 | BSD-3-Clause                            |
| golang.org/x/sys                                    | 1957bb5e6d1f | BSD-3-Clause                            |
| google.golang.org/api                               | v0.26.0      | BSD 3-Clause "New" or "Revised" License |

**Table 11-2 (Cont.) Software Package Dependency Licensing Information for coredns 1.7.0**

| Package Name                    | Version | License                            |
|---------------------------------|---------|------------------------------------|
| google.golang.org/grpc          | v1.29.1 | <a href="#">Apache License 2.0</a> |
| gopkg.in/DataDog/dd-trace-go.v1 | v1.24.1 | <a href="#">Apache-2.0</a>         |
| k8s.io/api                      | v0.18.3 | <a href="#">Apache License 2.0</a> |
| k8s.io/apimachinery             | v0.18.3 | <a href="#">Apache License 2.0</a> |
| k8s.io/client-go                | v0.18.3 | <a href="#">Apache License 2.0</a> |
| k8s.io/klog                     | v1.0.0  | <a href="#">Apache License 2.0</a> |

**Table 11-3 Software Package Dependency Licensing Information for etcd 3.4.13**

| Package Name                                     | Version      | License                                                 |
|--------------------------------------------------|--------------|---------------------------------------------------------|
| github.com/bgentry/speakeasy                     | v0.1.0       | <a href="#">MIT</a>                                     |
| github.com/cockroachdb/<br>datadriven            | 80d97fb3cbaa | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/go-semver                      | v0.2.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/go-systemd                     | 39ca1b05acc7 | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/pkg                            | 3ac0863d7acf | <a href="#">Apache License 2.0</a>                      |
| github.com/creack/pty                            | v1.1.7       | <a href="#">MIT License</a>                             |
| github.com/dgrijalva/jwt-go                      | v3.2.0       | <a href="#">MIT License</a>                             |
| github.com/dustin/go-humanize                    | bb3d318650d4 | <a href="#">MIT</a>                                     |
| github.com/fatih/color                           | v1.7.0       | <a href="#">MIT License</a>                             |
| github.com/gogo/protobuf                         | v1.2.1       | <a href="#">BSD-3-Clause</a>                            |
| github.com/golang/groupcache                     | 02826c3e7903 | <a href="#">Apache License 2.0</a>                      |
| github.com/golang/protobuf                       | v1.3.2       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/google/btree                          | v1.0.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/google/uuid                           | v1.0.0       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/gorilla/websocket                     | 4201258b820c | <a href="#">BSD 2-Clause "Simplified" License</a>       |
| github.com/grpc-ecosystem/go-<br>grpc-middleware | f849b5445de4 | <a href="#">Apache License 2.0</a>                      |
| github.com/grpc-ecosystem/go-<br>grpc-prometheus | v1.2.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/grpc-ecosystem/grpc-<br>gateway       | v1.9.5       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/inconshreveable/<br>mousetrap         | v1.0.0       | <a href="#">Apache-2.0</a>                              |
| github.com/jonboulle/clockwork                   | v0.1.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/json-iterator/go                      | v1.1.7       | <a href="#">MIT License</a>                             |
| github.com/mattn/go-colorable                    | v0.0.9       | <a href="#">MIT License</a>                             |
| github.com/mattn/go-isatty                       | v0.0.4       | <a href="#">MIT License</a>                             |
| github.com/mattn/go-runewidth                    | v0.0.2       | <a href="#">MIT License</a>                             |

**Table 11-3 (Cont.) Software Package Dependency Licensing Information for etcd 3.4.13**

| Package Name                            | Version      | License                                    |
|-----------------------------------------|--------------|--------------------------------------------|
| github.com/modern-go/reflect2           | v1.0.1       | Apache License 2.0                         |
| github.com/olekukonko/<br>tablewriter   | a0225b3f23b5 | MIT License                                |
| github.com/prometheus/<br>client_golang | v1.0.0       | Apache License 2.0                         |
| github.com/prometheus/<br>client_model  | 14fe0d1b01d4 | Apache License 2.0                         |
| github.com/sirupsen/logrus              | v1.4.2       | MIT License                                |
| github.com/soheilhy/cmux                | v0.1.4       | Apache License 2.0                         |
| github.com/spf13/cobra                  | v0.0.3       | Apache License 2.0                         |
| github.com/spf13/pflag                  | v1.0.1       | BSD 3-Clause "New" or<br>"Revised" License |
| github.com/tmc/grpc-websocket-<br>proxy | 89b8d40f7ca8 | MIT License                                |
| github.com/urfave/cli                   | v1.20.0      | MIT License                                |
| github.com/xiang90/probing              | 43a291ad63a2 | MIT License                                |
| go.etcd.io/bbolt                        | v1.3.3       | MIT License                                |
| go.uber.org/atomic                      | v1.3.2       | MIT License                                |
| go.uber.org/multierr                    | v1.1.0       | MIT License                                |
| go.uber.org/zap                         | v1.10.0      | MIT License                                |
| golang.org/x/crypto                     | c2843e01d9a2 | BSD-3-Clause                               |
| golang.org/x/lint                       | d0100b6bd8b3 | BSD 3-Clause "New" or<br>"Revised" License |
| golang.org/x/net                        | 74dc4d7220e7 | BSD-3-Clause                               |
| golang.org/x/sys                        | c7b8b68b1456 | BSD-3-Clause                               |
| golang.org/x/text                       | v0.3.3       | BSD-3-Clause                               |
| golang.org/x/time                       | fb02b2291d2  | BSD-3-Clause                               |
| golang.org/x/tools                      | 2c0ae7006135 | BSD-3-Clause                               |
| google.golang.org/grpc                  | v1.26.0      | Apache License 2.0                         |
| gopkg.in/cheggaaa/pb.v1                 | v1.0.25      | BSD 3-Clause "New" or<br>"Revised" License |
| gopkg.in/yaml.v2                        | v2.2.2       | Apache-2.0                                 |
| honnef.co/go/tools                      | ea95bdfd59fc | MIT                                        |
| sigs.k8s.io/yaml                        | v1.1.0       | MIT & BSD-3-Clause                         |

**Table 11-4 Software Package Dependency Licensing Information for flannel 0.13.0**

| Package Name                  | Version      | License                                    |
|-------------------------------|--------------|--------------------------------------------|
| cloud.google.com/go           | 7c205da84d8d | Apache License 2.0                         |
| github.com/Microsoft/hcsshim  | v0.8.6       | MIT License                                |
| github.com/PuerkitoBio/purell | v1.0.0       | BSD 3-Clause "New" or "Revised"<br>License |



**Table 11-4 (Cont.) Software Package Dependency Licensing Information for flannel 0.13.0**

| Package Name                               | Version      | License                                 |
|--------------------------------------------|--------------|-----------------------------------------|
| github.com/PuerkitoBio/urlesc              | 5bd2802263f2 | BSD 3-Clause "New" or "Revised" License |
| github.com/aws/aws-sdk-go                  | v1.12.54     | Apache License 2.0                      |
| github.com/bronze1man/<br>goStrongswanVici | 4d72634a2f11 | MIT License                             |
| github.com/containernetworking/<br>plugins | v0.8.6       | Apache License 2.0                      |
| github.com/coreos/etcd                     | v3.1.11      | Apache License 2.0                      |
| github.com/coreos/go-iptables              | v0.4.5       | Apache License 2.0                      |
| github.com/coreos/go-systemd               | 39ca1b05acc7 | Apache License 2.0                      |
| github.com/coreos/pkg                      | 3ac0863d7acf | Apache License 2.0                      |
| github.com/denverdino/aliyungo             | f6cab0c35083 | Apache License 2.0                      |
| github.com/docker/distribution             | v2.4.0       | Apache License 2.0                      |
| github.com/emicklei/go-restful             | 09691a3b6378 | MIT License                             |
| github.com/ghodss/yaml                     | 73d445a93680 | MIT & BSD-3-Clause                      |
| github.com/go-ini/ini                      | v1.28.1      | Apache License 2.0                      |
| github.com/go-openapi/jsonpointer          | 46af16f9f7b1 | Apache License 2.0                      |
| github.com/go-openapi/jsonreference        | 13c6e3589ad9 | Apache License 2.0                      |
| github.com/go-openapi/spec                 | 6aced65f8501 | Apache-2.0                              |
| github.com/go-openapi/swag                 | 1d0bd113de87 | Apache License 2.0                      |
| github.com/gogo/protobuf                   | 909568be09de | BSD-3-Clause                            |
| github.com/golang/glog                     | 44145f04b68c | Apache License 2.0                      |
| github.com/google/gofuzz                   | 44d81051d367 | Apache License 2.0                      |
| github.com/howeyc/gopass                   | 3ca23474a7c7 | ISC License                             |
| github.com/imdario/mergo                   | 6633656539c1 | BSD 3-Clause "New" or "Revised" License |
| github.com/jmespath/go-jmespath            | bd40a432e4c7 | Apache-2.0                              |
| github.com/joho/godotenv                   | 726cc8b906e3 | MIT License                             |
| github.com/jonboulle/clockwork             | v0.1.0       | Apache License 2.0                      |
| github.com/juju/errors                     | c7d06af17c68 | LGPL-3.0-only                           |
| github.com/juju/ratelimit                  | 77ed1c8a0121 | LGPL-3.0-only                           |
| github.com/juju/testing                    | 4c23f9c453cd | LGPL-3.0-only                           |
| github.com/mailru/easyjson                 | d5b7844b561a | MIT License                             |
| github.com/niemeyer/pretty                 | a10e7caefd8e | MIT License                             |
| github.com/smartybytes/goconvey            | v1.6.4       | MIT                                     |
| github.com/spf13/pflag                     | 08b1a584251b | BSD 3-Clause "New" or "Revised" License |
| github.com/stevvooe/resumable              | 22b14a53ba50 | BSD 3-Clause "New" or "Revised" License |
| github.com/stretchr/testify                | v1.6.1       | MIT License                             |
| github.com/ugorji/go                       | ded73eae5db7 | MIT License                             |
| github.com/vishvananda/netlink             | 023a6dafdcdf | Apache License 2.0                      |

**Table 11-4 (Cont.) Software Package Dependency Licensing Information for flannel 0.13.0**

| Package Name                 | Version      | License                                                 |
|------------------------------|--------------|---------------------------------------------------------|
| github.com/vishvananda/netns | 13995c7128cc | <a href="#">Apache License 2.0</a>                      |
| golang.org/x/net             | d8887717615a | <a href="#">BSD-3-Clause</a>                            |
| golang.org/x/oauth2          | 5432cc9688e6 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| google.golang.org/api        | e6586c9293b9 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| google.golang.org/appengine  | 4f7eeb5305a4 | <a href="#">Apache License 2.0</a>                      |
| gopkg.in/check.v1            | 8fa46927fb4f | <a href="#">BSD-2-Clause</a>                            |
| gopkg.in/inf.v0              | v0.9.0       | <a href="#">BSD-3-Clause</a>                            |
| gopkg.in/yaml.v1             | 9f9df34309c0 | <a href="#">Apache-2.0</a>                              |
| k8s.io/apimachinery          | 9603df80256c | <a href="#">Apache License 2.0</a>                      |
| k8s.io/client-go             | a95edf803628 | <a href="#">Apache License 2.0</a>                      |

**Table 11-5 Software Package Dependency Licensing Information for kubernetes-cni-plugins 0.9.1**

| Package Name                       | Version      | License                                                 |
|------------------------------------|--------------|---------------------------------------------------------|
| github.com/Microsoft/go-winio      | v0.4.11      | <a href="#">MIT License</a>                             |
| github.com/Microsoft/hcsshim       | v0.8.6       | <a href="#">MIT License</a>                             |
| github.com/alexflint/go-filemutex  | 72bdc8eae2ae | <a href="#">MIT License</a>                             |
| github.com/buger/jsonparser        | f4dd9f5a6b44 | <a href="#">MIT License</a>                             |
| github.com/containernetworking/cni | v0.8.1       | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/go-iptables      | v0.5.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/go-systemd       | 39ca1b05acc7 | <a href="#">Apache License 2.0</a>                      |
| github.com/d2g/dhcp4               | a1d1b6c41b1c | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/d2g/dhcp4client         | v1.0.0       | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/d2g/dhcp4server         | 7d4a0a7f59a5 | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/d2g/hardwareaddr        | e7d9fbe030e4 | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/godbus/dbus             | 885f9cc04c9c | <a href="#">BSD 2-Clause "Simplified" License</a>       |
| github.com/j-keck/arping           | 2cf9dc699c56 | <a href="#">MIT License</a>                             |
| github.com/mattn/go-shellwords     | v1.0.3       | <a href="#">MIT License</a>                             |
| github.com/onsi/ginkgo             | v1.12.1      | <a href="#">MIT License</a>                             |
| github.com/onsi/gomega             | v1.10.3      | <a href="#">MIT License</a>                             |
| github.com/safchain/ethtool        | 42ed695e3de8 | <a href="#">Apache License 2.0</a>                      |
| github.com/sirupsen/logrus         | v1.0.6       | <a href="#">MIT License</a>                             |
| github.com/stretchr/testify        | v1.3.0       | <a href="#">MIT License</a>                             |
| github.com/vishvananda/netlink     | d40f9887b852 | <a href="#">Apache License 2.0</a>                      |
| golang.org/x/sys                   | d9b008d0a637 | <a href="#">BSD-3-Clause</a>                            |
| gopkg.in/airbrake/gobrake.v2       | v2.0.9       | <a href="#">MIT License</a>                             |

**Table 11-5 (Cont.) Software Package Dependency Licensing Information for kubernetes-cni-plugins 0.9.1**

| Package Name                                                                                                           | Version | License                     |
|------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------|
| <a href="https://github.com/gopkg.in/gemnasium/logrus-airbrake-hook.v2">gopkg.in/gemnasium/logrus-airbrake-hook.v2</a> | v2.1.2  | <a href="#">MIT License</a> |

**Table 11-6 Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                                                                                                              | Version       | License                                                 |
|---------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------|
| <a href="https://github.com/bitbucket.org/bertimus9/systemstat">bitbucket.org/bertimus9/systemstat</a>                    | 0eeff89b0690  | <a href="#">MIT License</a>                             |
| <a href="https://github.com/Azure/azure-sdk-for-go">github.com/Azure/azure-sdk-for-go</a>                                 | v43.0.0       | <a href="#">MIT License</a>                             |
| <a href="https://github.com/Azure/go-autorest">github.com/Azure/go-autorest</a>                                           | v0.11.1       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/Azure/go-autorest/autorest/adal">github.com/Azure/go-autorest/autorest/adal</a>               | v0.9.5        | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/Azure/go-autorest/autorest/to">github.com/Azure/go-autorest/autorest/to</a>                   | v0.2.0        | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/GoogleCloudPlatform/k8s-cloud-provider">github.com/GoogleCloudPlatform/k8s-cloud-provider</a> | 7901bc822317  | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/JeffAshton/win_pdh">github.com/JeffAshton/win_pdh</a>                                         | 76bb4ee9f0ab  | <a href="#">BSD-3-Clause</a>                            |
| <a href="https://github.com/Microsoft/go-winio">github.com/Microsoft/go-winio</a>                                         | v0.4.15       | <a href="#">MIT License</a>                             |
| <a href="https://github.com/Microsoft/hcsshim">github.com/Microsoft/hcsshim</a>                                           | 5eafd1556990  | <a href="#">MIT License</a>                             |
| <a href="https://github.com/PuerkitoBio/purell">github.com/PuerkitoBio/purell</a>                                         | v1.1.1        | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| <a href="https://github.com/aronmoo/circbuf">github.com/aronmoo/circbuf</a>                                               | bbbada097214e | <a href="#">MIT License</a>                             |
| <a href="https://github.com/auth0/go-jwt-middleware">github.com/auth0/go-jwt-middleware</a>                               | 5493cabe49f7  | <a href="#">MIT License</a>                             |
| <a href="https://github.com/aws/aws-sdk-go">github.com/aws/aws-sdk-go</a>                                                 | v1.35.24      | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/blang/semver">github.com/blang/semver</a>                                                     | v3.5.1        | <a href="#">MIT License</a>                             |
| <a href="https://github.com/boltdb/bolt">github.com/boltdb/bolt</a>                                                       | v1.3.1        | <a href="#">MIT License</a>                             |
| <a href="https://github.com/caddyserver/caddy">github.com/caddyserver/caddy</a>                                           | v1.0.3        | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/clusterhq/flocker-go">github.com/clusterhq/flocker-go</a>                                     | 2b8b7259d313  | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/codegangsta/negroni">github.com/codegangsta/negroni</a>                                       | v1.0.0        | <a href="#">MIT License</a>                             |
| <a href="https://github.com/container-storage-interface/spec">github.com/container-storage-interface/spec</a>             | v1.2.0        | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/containernetworking/cni">github.com/containernetworking/cni</a>                               | v0.8.0        | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coredns/corefile-migration">github.com/coredns/corefile-migration</a>                         | v1.0.10       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coreos/go-oidc">github.com/coreos/go-oidc</a>                                                 | v2.1.0        | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coreos/go-systemd">github.com/coreos/go-systemd</a>                                           | 95778dfbb74e  | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coreos/pkg">github.com/coreos/pkg</a>                                                         | 399ea9e2e55f  | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/cpuguy83/go-md2man/v2">github.com/cpuguy83/go-md2man/v2</a>                                   | v2.0.0        | <a href="#">MIT License</a>                             |

**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                          | Version      | License                                       |
|---------------------------------------|--------------|-----------------------------------------------|
| github.com/davecgh/go-spew            | v1.1.1       | ISC License                                   |
| github.com/docker/distribution        | v2.7.1       | Apache License 2.0                            |
| github.com/docker/docker              | bd33bbf0497b | Apache License 2.0                            |
| github.com/docker/go-connections      | v0.4.0       | Apache License 2.0                            |
| github.com/docker/go-units            | v0.4.0       | Apache License 2.0                            |
| github.com/elazarl/goproxy            | 947c36da3153 | BSD 3-Clause "New" or "Revised" License       |
| github.com/emicklei/go-restful        | v2.9.5       | MIT License                                   |
| github.com/evanphx/json-patch         | v4.9.0       | BSD 3-Clause "New" or "Revised" License       |
| github.com/fsnotify/fsnotify          | v1.4.9       | BSD 3-Clause "New" or "Revised" License       |
| github.com/go-bindata/go-bindata      | v3.1.1       | CC0-1.0                                       |
| github.com/go-openapi/loads           | v0.19.4      | Apache License 2.0                            |
| github.com/go-openapi/spec            | v0.19.3      | Apache-2.0                                    |
| github.com/go-openapi/strfmt          | v0.19.3      | Apache License 2.0                            |
| github.com/go-openapi/validate        | v0.19.5      | Apache License 2.0                            |
| github.com/go-ozzo/ozzo-validation    | v3.5.0       | MIT License                                   |
| github.com/godbus/dbus/v5             | v5.0.3       | BSD 2-Clause "Simplified" License             |
| github.com/gogo/protobuf              | v1.3.2       | BSD-3-Clause                                  |
| github.com/golang/groupcache          | 8c9f03a8e57e | Apache License 2.0                            |
| github.com/golang/mock                | v1.4.1       | Apache License 2.0                            |
| github.com/google/cadvisor            | v0.38.8      | Apache-2.0                                    |
| github.com/google/go-cmp              | v0.5.2       | BSD 3-Clause "New" or "Revised" License       |
| github.com/google/gofuzz              | v1.1.0       | Apache License 2.0                            |
| github.com/google/uuid                | v1.1.2       | BSD 3-Clause "New" or "Revised" License       |
| github.com/googleapis/gnostic         | v0.4.1       | Apache License 2.0                            |
| github.com/gorilla/context            | v1.1.1       | BSD 3-Clause "New" or "Revised" License       |
| github.com/hashicorp/golang-lru       | v0.5.1       | Mozilla Public License 2.0                    |
| github.com/heketi/heketi              | c2e2a4ab7ab9 | LGPL-3.0-or-later & Apache-2.0 & GPL-2.0-only |
| github.com/heketi/tests               | f3775cbcefd6 | Apache License 2.0                            |
| github.com/ishidawataru/sctp          | 7c296d48a2b5 | Apache-2.0                                    |
| github.com/json-iterator/go           | v1.1.10      | MIT License                                   |
| github.com/libopenstorage/openstorage | v1.0.0       | Apache License 2.0                            |
| github.com/lithammer/dedent           | v1.1.0       | MIT License                                   |
| github.com/lpabon/godbc               | v0.1.1       | Apache License 2.0                            |

**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                        | Version      | License                                 |
|-------------------------------------|--------------|-----------------------------------------|
| github.com/miekg/dns                | v1.1.4       | BSD-3-Clause                            |
| github.com/moby/ipvs                | v1.0.1       | Apache License 2.0                      |
| github.com/mohae/deepcopy           | 491d3605edfb | MIT License                             |
| github.com/mrunalp/fileutils        | abd8a0e76976 | Apache License 2.0                      |
| github.com/munnerz/goautoneg        | a7dc8b61c822 | BSD 3-Clause "New" or "Revised" License |
| github.com/mvdan/xurls              | v1.1.0       | BSD 3-Clause "New" or "Revised" License |
| github.com/onsi/ginkgo              | v1.11.0      | MIT License                             |
| github.com/onsi/gomega              | v1.7.0       | MIT License                             |
| github.com/opencontainers/go-digest | v1.0.0       | Apache-2.0                              |
| github.com/opencontainers/runc      | v1.0.0-rc92  | Apache License 2.0                      |
| github.com/opencontainers/selinux   | v1.6.0       | Apache License 2.0                      |
| github.com/pkg/errors               | v0.9.1       | BSD 2-Clause "Simplified" License       |
| github.com/pmezard/go-difflib       | v1.0.0       | BSD-3-Clause                            |
| github.com/prometheus/client_golang | v1.7.1       | Apache License 2.0                      |
| github.com/prometheus/client_model  | v0.2.0       | Apache License 2.0                      |
| github.com/prometheus/common        | v0.10.0      | Apache License 2.0                      |
| github.com/quobyte/api              | v0.1.8       | BSD 3-Clause "New" or "Revised" License |
| github.com/robfig/cron              | v1.1.0       | MIT License                             |
| github.com/spf13/afero              | v1.2.2       | Apache License 2.0                      |
| github.com/spf13/cobra              | v1.1.1       | Apache License 2.0                      |
| github.com/spf13/jwalterweatherman  | v1.1.0       | MIT License                             |
| github.com/spf13/pflag              | v1.0.5       | BSD 3-Clause "New" or "Revised" License |
| github.com/spf13/viper              | v1.7.0       | MIT License                             |
| github.com/storageos/go-api         | v2.2.0       | MIT & BSD-2-Clause                      |
| github.com/stretchr/testify         | v1.6.1       | MIT License                             |
| github.com/thecodeteam/goscaleio    | v0.1.0       | Apache License 2.0                      |
| github.com/urfave/negroni           | v1.0.0       | MIT License                             |
| github.com/vishvananda/netlink      | v1.1.0       | Apache License 2.0                      |
| github.com/vmware/govmomi           | v0.20.3      | Apache License 2.0                      |
| go.etcd.io/etcd                     | dd1b699fc489 | Apache License 2.0                      |
| golang.org/x/crypto                 | 7f63de1d35b0 | BSD-3-Clause                            |
| golang.org/x/net                    | 69a78807bb2b | BSD-3-Clause                            |

**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                   | Version       | License                                 |
|--------------------------------|---------------|-----------------------------------------|
| golang.org/x/oauth2            | bf48bf16ab8d  | BSD 3-Clause "New" or "Revised" License |
| golang.org/x/sys               | 5cba982894dd  | BSD-3-Clause                            |
| golang.org/x/time              | 3af7569d3a1e  | BSD-3-Clause                            |
| golang.org/x/tools             | 113979e3529a  | BSD-3-Clause                            |
| gonum.org/v1/gonum             | v0.6.2        | BSD 3-Clause "New" or "Revised" License |
| gonum.org/v1/netlib            | 76723241ea4e  | BSD 3-Clause "New" or "Revised" License |
| google.golang.org/api          | v0.20.0       | BSD 3-Clause "New" or "Revised" License |
| google.golang.org/appengine    | v1.6.5        | Apache License 2.0                      |
| google.golang.org/grpc         | v1.27.1       | Apache License 2.0                      |
| gopkg.in/gcfg.v1               | v1.2.0        | BSD-3-Clause                            |
| gopkg.in/square/go-jose.v2     | v2.2.2        | Apache License 2.0                      |
| gopkg.in/yaml.v2               | v2.2.8        | Apache-2.0                              |
| k8s.io/api                     | v0.0.0        | Apache License 2.0                      |
| k8s.io/apiextensions-apiserver | v0.0.0        | Apache License 2.0                      |
| k8s.io/apimachinery            | v0.0.0        | Apache License 2.0                      |
| k8s.io/apiserver               | v0.0.0        | Apache License 2.0                      |
| k8s.io/cli-runtime             | v0.0.0        | Apache License 2.0                      |
| k8s.io/client-go               | v0.0.0        | Apache License 2.0                      |
| k8s.io/cloud-provider          | v0.0.0        | Apache License 2.0                      |
| k8s.io/cluster-bootstrap       | v0.0.0        | Apache License 2.0                      |
| k8s.io/code-generator          | v0.0.0        | Apache License 2.0                      |
| k8s.io/component-base          | v0.0.0        | Apache License 2.0                      |
| k8s.io/component-helpers       | v0.0.0        | Apache License 2.0                      |
| k8s.io/controller-manager      | v0.0.0        | Apache License 2.0                      |
| k8s.io/cri-api                 | v0.0.0        | Apache License 2.0                      |
| k8s.io/csi-translation-lib     | v0.0.0        | Apache License 2.0                      |
| k8s.io/gengo                   | 83324d819ded  | Apache License 2.0                      |
| k8s.io/heapster                | v1.2.0-beta.1 | Apache License 2.0                      |
| k8s.io/klog/v2                 | v2.4.0        | Apache License 2.0                      |
| k8s.io/kube-aggregator         | v0.0.0        | Apache License 2.0                      |
| k8s.io/kube-controller-manager | v0.0.0        | Apache License 2.0                      |
| k8s.io/kube-openapi            | d219536bb9fd  | Apache License 2.0                      |
| k8s.io/kube-proxy              | v0.0.0        | Apache License 2.0                      |
| k8s.io/kube-scheduler          | v0.0.0        | Apache License 2.0                      |
| k8s.io/kubectrl                | v0.0.0        | Apache License 2.0                      |
| k8s.io/kubelet                 | v0.0.0        | Apache License 2.0                      |
| k8s.io/legacy-cloud-providers  | v0.0.0        | Apache License 2.0                      |

**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name             | Version      | License                                |
|--------------------------|--------------|----------------------------------------|
| k8s.io/metrics           | v0.0.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/mount-utils       | v0.0.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/sample-apiserver  | v0.0.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/system-validators | v1.2.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/utils             | 67b214c5f920 | <a href="#">Apache License 2.0</a>     |
| sigs.k8s.io/yaml         | v1.2.0       | <a href="#">MIT &amp; BSD-3-Clause</a> |

## CRI-O

**Table 11-7 Software Package and Container Image Licensing Information for CRI-O**

| Component | RPM Packages                                            | Container Images     | License Information        | Dependencies                                                                            |
|-----------|---------------------------------------------------------|----------------------|----------------------------|-----------------------------------------------------------------------------------------|
| common    | common-2.0.26-1.<br><b>[platform].x86_64.r</b><br>pm    | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-8</a> .  |
| cri-o     | cri-o-1.20.2-1.<br><b>[platform].x86_64.r</b><br>pm     | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-9</a> .  |
| cri-tools | cri-tools-1.20.0-1.<br><b>[platform].x86_64.r</b><br>pm | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-10</a> . |

**Table 11-8 Software Package Dependency Licensing Information for common 2.0.26**

| Package Name | Version | License                                                       |
|--------------|---------|---------------------------------------------------------------|
| glibc-static | 2.17    | <a href="#">LGPLv2+ and LGPLv2+ with exceptions and GPLv2</a> |
| glib2-devel  | 2.56.1  | <a href="#">LGPLv2+</a>                                       |
| glibc-devel  | 2.17    | <a href="#">LGPLv2+ and LGPLv2+ with exceptions and GPLv2</a> |
| pkgconfig    | 0.27.1  | <a href="#">GPLv2+</a>                                        |

**Table 11-9 Software Package Dependency Licensing Information for cri-o 1.20.2**

| Package Name                             | Version      | License                                 |
|------------------------------------------|--------------|-----------------------------------------|
| github.com/BurntSushi/toml               | v0.3.1       | MIT License                             |
| github.com/Microsoft/go-winio            | v0.4.16      | MIT License                             |
| github.com/blang/semver                  | v3.5.1       | MIT License                             |
| github.com/containerd/cgroups            | 4cbc285b3327 | Apache License 2.0                      |
| github.com/containerd/containerd         | v1.4.1       | Apache License 2.0                      |
| github.com/containerd/ttrpc              | v1.0.2       | Apache License 2.0                      |
| github.com/containerd/networking/cni     | v0.8.0       | Apache License 2.0                      |
| github.com/containerd/networking/plugins | v0.8.7       | Apache License 2.0                      |
| github.com/containerd/buildah            | v1.15.2      | Apache License 2.0                      |
| github.com/containerd/common             | v0.21.0      | Apache License 2.0                      |
| github.com/containerd/conmon             | v2.0.20      | Apache License 2.0                      |
| github.com/containerd/image/v5           | v5.10.1      | Apache License 2.0                      |
| github.com/containerd/libpod/v2          | v2.0.6       | Apache License 2.0                      |
| github.com/containerd/ocicrypt           | v1.0.3       | Apache License 2.0                      |
| github.com/containerd/storage            | v1.24.5      | Apache License 2.0                      |
| github.com/coreos/go-systemd/v22         | v22.1.0      | Apache License 2.0                      |
| github.com/cpuguy83/go-md2man            | v1.0.10      | MIT License                             |
| github.com/creack/pty                    | v1.1.11      | MIT License                             |
| github.com/cri-o/ocicni                  | 513ef787b8c9 | Apache License 2.0                      |
| github.com/cyphar/filepath-securejoin    | v0.2.2       | BSD 3-Clause "New" or "Revised" License |
| github.com/docker/distribution           | v2.7.1       | Apache License 2.0                      |
| github.com/docker/go-units               | v0.4.0       | Apache License 2.0                      |
| github.com/fsnotify/fsnotify             | v1.4.9       | BSD 3-Clause "New" or "Revised" License |
| github.com/go-zoo/bone                   | v1.3.0       | MIT License                             |
| github.com/godbus/dbus/v5                | v5.0.3       | BSD 2-Clause "Simplified" License       |
| github.com/gogo/protobuf                 | v1.3.2       | BSD-3-Clause                            |
| github.com/golang/mock                   | v1.4.4       | Apache License 2.0                      |
| github.com/google/renameio               | v0.1.0       | Apache License 2.0                      |



**Table 11-9 (Cont.) Software Package Dependency Licensing Information for cri-o 1.20.2**

| Package Name                                 | Version      | License                                 |
|----------------------------------------------|--------------|-----------------------------------------|
| github.com/google/uuid                       | v1.1.4       | BSD 3-Clause "New" or "Revised" License |
| github.com/grpc-ecosystem/go-grpc-middleware | v1.2.0       | Apache License 2.0                      |
| github.com/hashicorp/errwrap                 | v1.1.0       | Mozilla Public License 2.0              |
| github.com/hpcloud/tail                      | v1.0.0       | MIT                                     |
| github.com/json-iterator/go                  | v1.1.10      | MIT License                             |
| github.com/onsi/ginkgo                       | v1.14.1      | MIT License                             |
| github.com/onsi/gomega                       | v1.10.3      | MIT License                             |
| github.com/opencontainers/go-digest          | v1.0.0       | Apache-2.0                              |
| github.com/opencontainers/image-spec         | 79b036d80240 | Apache License 2.0                      |
| github.com/opencontainers/runc               | v1.0.0-rc92  | Apache License 2.0                      |
| github.com/opencontainers/runtime-spec       | 4d89ac9fbff6 | Apache License 2.0                      |
| github.com/opencontainers/runtime-tools      | 07406c5828aa | Apache License 2.0                      |
| github.com/opencontainers/selinux            | v1.8.0       | Apache License 2.0                      |
| github.com/pkg/errors                        | v0.9.1       | BSD 2-Clause "Simplified" License       |
| github.com/pquerna/ffjson                    | aa0246cd15f7 | Apache License 2.0                      |
| github.com/prometheus/client_golang          | v1.7.1       | Apache License 2.0                      |
| github.com/psampaz/go-mod-outdated           | v0.7.0       | MIT License                             |
| github.com/sirupsen/logrus                   | v1.7.0       | MIT License                             |
| github.com/soheilhy/cmux                     | v0.1.4       | Apache License 2.0                      |
| github.com/stretchr/testify                  | v1.7.0       | MIT License                             |
| github.com/syndtr/gocapability               | d98352740cb2 | BSD 2-Clause "Simplified" License       |
| github.com/urfave/cli/v2                     | v2.2.0       | MIT License                             |
| github.com/vishvananda/netlink               | v1.1.0       | Apache License 2.0                      |
| golang.org/x/net                             | 6772e930b67b | BSD-3-Clause                            |
| golang.org/x/sync                            | 67f06af15bc9 | BSD-3-Clause                            |
| golang.org/x/sys                             | 16f7687f5001 | BSD-3-Clause                            |
| google.golang.org/grpc                       | v1.33.2      | Apache License 2.0                      |
| k8s.io/api                                   | v0.19.2      | Apache License 2.0                      |
| k8s.io/apimachinery                          | v0.19.2      | Apache License 2.0                      |
| k8s.io/client-go                             | v0.18.8      | Apache License 2.0                      |

**Table 11-9 (Cont.) Software Package Dependency Licensing Information for cri-o 1.20.2**

| Package Name      | Version      | License                                 |
|-------------------|--------------|-----------------------------------------|
| k8s.io/cri-api    | v0.0.0       | Apache License 2.0                      |
| k8s.io/klog/v2    | v2.4.0       | Apache License 2.0                      |
| k8s.io/kubernetes | v1.19.2      | Apache License 2.0                      |
| k8s.io/release    | v0.6.0       | Apache License 2.0                      |
| k8s.io/utils      | 67b214c5f920 | Apache License 2.0                      |
| mvdan.cc/sh/v3    | v3.2.0       | BSD 3-Clause "New" or "Revised" License |

**Table 11-10 Software Package Dependency Licensing Information for cri-tools 1.20.0**

| Package Name                        | Version      | License                                 |
|-------------------------------------|--------------|-----------------------------------------|
| github.com/docker/distribution      | v2.7.1       | Apache License 2.0                      |
| github.com/docker/docker            | c7109494fe65 | Apache License 2.0                      |
| github.com/docker/go-units          | v0.4.0       | Apache License 2.0                      |
| github.com/golang/glog              | 23def4e6c14b | Apache License 2.0                      |
| github.com/golang/protobuf          | v1.4.3       | BSD 3-Clause "New" or "Revised" License |
| github.com/onsi/ginkgo              | v1.14.2      | MIT License                             |
| github.com/onsi/gomega              | v1.10.3      | MIT License                             |
| github.com/opencontainers/go-digest | v1.0.0       | Apache-2.0                              |
| github.com/opencontainers/selinux   | v1.6.0       | Apache License 2.0                      |
| github.com/pborman/uuid             | v1.2.1       | BSD 3-Clause "New" or "Revised" License |
| github.com/pkg/errors               | v0.9.1       | BSD 2-Clause "Simplified" License       |
| github.com/sirupsen/logrus          | v1.7.0       | MIT License                             |
| github.com/urfave/cli/v2            | v2.3.0       | MIT License                             |
| golang.org/x/net                    | 69a78807bb2b | BSD-3-Clause                            |
| golang.org/x/sys                    | 5cba982894dd | BSD-3-Clause                            |
| google.golang.org/grpc              | v1.33.2      | Apache License 2.0                      |
| gopkg.in/yaml.v3                    | eeeca48fe776 | Apache-2.0                              |
| k8s.io/api                          | v0.0.0       | Apache License 2.0                      |
| k8s.io/apimachinery                 | v0.0.0       | Apache License 2.0                      |
| k8s.io/client-go                    | v11.0.0      | Apache License 2.0                      |
| k8s.io/cri-api                      | v0.0.0       | Apache License 2.0                      |
| k8s.io/kubectrl                     | v0.0.0       | Apache License 2.0                      |
| k8s.io/kubernetes                   | v0.0.0       | Apache License 2.0                      |
| sigs.k8s.io/yaml                    | v1.2.0       | MIT & BSD-3-Clause                      |

## Kata Containers

**Table 11-11 Software Package and Container Image Licensing Information for Kata Containers**

| Component          | RPM Packages                                                 | Container Images     | License Information        | Dependencies                                                                            |
|--------------------|--------------------------------------------------------------|----------------------|----------------------------|-----------------------------------------------------------------------------------------|
| kata-ksm-throttler | kata-ksm-throttler-1.12.1-2.<br><b>[platform].x86_64.rpm</b> | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-12</a> . |
| kata-proxy         | kata-proxy-1.12.1-2.<br><b>[platform].x86_64.rpm</b>         | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-13</a> . |
| kata-runtime       | kata-runtime-1.12.1-2.<br><b>[platform].x86_64.rpm</b>       | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-14</a> . |
| kata-shim          | kata-shim-1.12.1-2.<br><b>[platform].x86_64.rpm</b>          | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-15</a> . |
| kata-image         |                                                              | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-16</a> . |

**Table 11-12 Software Package Dependency Licensing Information for kata-ksm-throttler 1.12.1**

| Package Name                  | Version                                  | License                                                 |
|-------------------------------|------------------------------------------|---------------------------------------------------------|
| github.com/davecgh/go-spew    | v1.1.0                                   | <a href="#">ISC License</a>                             |
| github.com/fsnotify/fsnotify  | 4da3e2cfbabc9f751898f250b49f2439785783a1 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/golang/protobuf    | 1e59b77b52bf8e4b449a57e6f79f21226d571845 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/pmezard/go-difflib | v1.0.0                                   | <a href="#">BSD-3-Clause</a>                            |
| github.com/sirupsen/logrus    | v1.0.3                                   | <a href="#">MIT License</a>                             |

**Table 11-12 (Cont.) Software Package Dependency Licensing Information for kata-ksm-throttler 1.12.1**

| Package Name                  | Version                                  | License            |
|-------------------------------|------------------------------------------|--------------------|
| github.com/stretchchr/testify | 2aa2c176b9dab406a6970f6a55f513e8a8c8b18f | MIT License        |
| golang.org/x/crypto           | 9f005a07e0d31d45e6656d241bb5c0f2efd4bc94 | BSD-3-Clause       |
| golang.org/x/net              | a337091b0525af65de94df2eb7e98bd9962dcbe2 | BSD-3-Clause       |
| golang.org/x/sys              | bf42f188b9bc6f2cf5b8ee5a912ef1aedd0eba4c | BSD-3-Clause       |
| golang.org/x/text             | 88f656faf3f37f690df1a32515b479415e1a6769 | BSD-3-Clause       |
| google.golang.org/genproto    | 11c7f9e547da6db876260ce49ea7536985904c9b | Apache License 2.0 |
| google.golang.org/grpc        | v1.7.3                                   | Apache License 2.0 |

**Table 11-13 Software Package Dependency Licensing Information for kata-proxy 1.12.1**

| Package Name                  | Version                                  | License                    |
|-------------------------------|------------------------------------------|----------------------------|
| github.com/davecgh/go-spew    | v1.1.0                                   | ISC License                |
| github.com/hashicorp/yamux    | f5742cb6                                 | Mozilla Public License 2.0 |
| github.com/pmezard/go-difflib | v1.0.0                                   | BSD-3-Clause               |
| github.com/sirupsen/logrus    | v1.0.4                                   | MIT License                |
| github.com/stretchchr/testify | v1.2.1                                   | MIT License                |
| golang.org/x/crypto           | 13931e22f9e72ea58bb73048bc752b48c6d4d4ac | BSD-3-Clause               |
| golang.org/x/sys              | 810d7000345868fc619eb81f46307107118f4ae1 | BSD-3-Clause               |

**Table 11-14 Software Package Dependency Licensing Information for kata-runtime 1.12.1**

| Package Name                      | Version                                  | License                                 |
|-----------------------------------|------------------------------------------|-----------------------------------------|
| github.com/BurntSushi/toml        | v0.3.1                                   | MIT License                             |
| github.com/Microsoft/go-winio     | v0.4.12                                  | MIT License                             |
| github.com/Microsoft/hcsshim      | v0.8.6                                   | MIT License                             |
| github.com/PuerkitoBio/purell     | v1.1.1                                   | BSD 3-Clause "New" or "Revised" License |
| github.com/PuerkitoBio/urlesc     | de5bf2ad457846296e2031421a34e2568e304e35 | BSD 3-Clause "New" or "Revised" License |
| github.com/asaskevich/govalidator | ccb8e960c48f04d6935e72476ae4a51028f9e22f | MIT License                             |

**Table 11-14 (Cont.) Software Package Dependency Licensing Information for kata-runtime 1.12.1**

| Package Name                           | Version                                  | License            |
|----------------------------------------|------------------------------------------|--------------------|
| github.com/blang/semver                | v3.6.1                                   | MIT License        |
| github.com/cilium/ebpf                 | c8f8abaa9ece88e9be5b888e23e130e726d9afa4 | MIT License        |
| github.com/codahale/hdrhistogram       | 3a0bb77429bd3a61596f5e8a3172445844342120 | MIT License        |
| github.com/containerd/cgroups          | c4b9ac5c7601384c965b9646fc515884e091ebb9 | Apache License 2.0 |
| github.com/containerd/console          | 0650fd9eeb50bab4fc99dceb9f2e14cf58f36e7f | Apache License 2.0 |
| github.com/containerd/containerd       | f05672357f56f26751a521175c5a96fc21fa8603 | Apache License 2.0 |
| github.com/containerd/cri-containerd   | 4dd6735020f5596dd41738f8c4f5cb07fa804c5e | Apache License 2.0 |
| github.com/containerd/fifo             | a9fb20d87448d386e6d50b1f2e1fa70dcf0de43c | Apache License 2.0 |
| github.com/containerd/gorunc           | 7d11b49dc0769f6dbb0d1b19f3d48524d1bad9ad | Apache License 2.0 |
| github.com/containerd/ttrpc            | 92c8520ef9f86600c650dd540266a007bf03670f | Apache License 2.0 |
| github.com/containerd/typeurl          | 2a93cfde8c20b23de8eb84a5adbc234ddf7a9e8d | Apache License 2.0 |
| github.com/containernetworking/cni     | v0.7.1                                   | Apache License 2.0 |
| github.com/containernetworking/plugins | 485be65581341430f9106a194a98f0f2412245fb | Apache License 2.0 |
| github.com/coreos/go-systemd           | 9002847aa1425fb6ac49077c0a630b3b67e0fbfd | Apache License 2.0 |
| github.com/cri-o/cri-o                 | 3394b3b2d6af0e41d185bb695c6378be5dd4d61d | Apache License 2.0 |
| github.com/davecgh/go-spew             | v1.1.1                                   | ISC License        |
| github.com/dlespiau/covertool          | b0c4c6d0583aae4e3b5d12b6ec47767670548cc4 | Apache License 2.0 |
| github.com/docker/go-units             | v0.3.3                                   | Apache License 2.0 |
| github.com/globalsign/mgo              | eeefdec41b842af6dc652aaea4026e8403e62df  | BSD-2-Clause       |
| github.com/go-ini/ini                  | 20b96f641a5ea98f2f8619ff4f3e061cff4833bd | Apache License 2.0 |
| github.com/go-logr/logr                | v0.2.0                                   | Apache License 2.0 |
| github.com/go-openapi/analysis         | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/errors           | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/jsonpointer      | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/jsonreference    | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/loads            | v0.18.0                                  | Apache License 2.0 |

**Table 11-14 (Cont.) Software Package Dependency Licensing Information for kata-runtime 1.12.1**

| Package Name                                       | Version                                  | License                                 |
|----------------------------------------------------|------------------------------------------|-----------------------------------------|
| github.com/go-openapi/runtime                      | v0.18.0                                  | Apache License 2.0                      |
| github.com/go-openapi/spec                         | v0.18.0                                  | Apache-2.0                              |
| github.com/go-openapi/strfmt                       | v0.18.0                                  | Apache License 2.0                      |
| github.com/go-openapi/swag                         | v0.18.0                                  | Apache License 2.0                      |
| github.com/go-openapi/validate                     | v0.18.0                                  | Apache License 2.0                      |
| github.com/godbus/dbus                             | v5.0.1                                   | BSD 2-Clause "Simplified" License       |
| github.com/gogo/protobuf                           | 4cbf7e384e768b4e01799441fd2a706a5635ae7  | BSD-3-Clause                            |
| github.com/golang/protobuf                         | v1.3.0                                   | BSD 3-Clause "New" or "Revised" License |
| github.com/grpc-ecosystem/grpc-opentracing         | 8e809c8a86450a29b90dcc9efbf062d0fe6d9746 | BSD-3-Clause                            |
| github.com/hashicorp/errwrap                       | v1.0.0                                   | Mozilla Public License 2.0              |
| github.com/hashicorp/go-multierror                 | v1.0.0                                   | Mozilla Public License 2.0              |
| github.com/hashicorp/yamux                         | 2f1d1f20f75d5404f53b9edf6b53ed5505508675 | Mozilla Public License 2.0              |
| github.com/kata-containers/agent                   | e921aa3d0fa39cbd7933c15bd6ae7f0a1d7ab757 | Apache License 2.0                      |
| github.com/kata-containers/govmm                   | 7d320e8f5dcad260c1723bda3bff21539750d51f | Apache License 2.0                      |
| github.com/konsorten/go-windows-terminal-sequences | v1.0.2                                   | MIT License                             |
| github.com/mailru/easyjson                         | 6243d8e04c3f819e79757e8bc3faa15c3cb27003 | MIT License                             |
| github.com/mdlayher/vsock                          | 7b7533a7ca4eba7dd23dab2de70e25ca6eecf7e2 | MIT License                             |
| github.com/mitchellh/mapstructure                  | d0303fe809921458f417bcf828397a65db30a7e4 | MIT License                             |
| github.com/opencontainers/go-digest                | v1.0.0-rc1                               | Apache-2.0                              |
| github.com/opencontainers/runc                     | 2b52db75279ca687e18156de86d845876e9ef35d | Apache License 2.0                      |
| github.com/opencontainers/runtime-spec             | a1b50f621a48ad13f8f696a162f684a241307db0 | Apache License 2.0                      |
| github.com/opencontainers/selinux                  | v1.4.0                                   | Apache License 2.0                      |
| github.com/opentracing/opentracing-go              | v1.0.2                                   | Apache License 2.0                      |
| github.com/pkg/errors                              | v0.8.1                                   | BSD 2-Clause "Simplified" License       |
| github.com/pmezard/go-difflib                      | v1.0.0                                   | BSD-3-Clause                            |

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| Package Name                         | Version                                  | License                                 |
|--------------------------------------|------------------------------------------|-----------------------------------------|
| github.com/prometheus/procfs         | af7bedc223fba51343f25a6fa7aba84355d0357a | Apache License 2.0                      |
| github.com/safchain/ethtool          | 79559b488d8848b53a8e34c330140c3fc37ee246 | Apache License 2.0                      |
| github.com/seccomp/libseccomp-golang | v0.9.0                                   | BSD 2-Clause "Simplified" License       |
| github.com/sirupsen/logrus           | v1.4.2                                   | MIT License                             |
| github.com/stretchr/testify          | 890a5c3458b43e6104ff5da8dfa139d013d77544 | MIT License                             |
| github.com/uber/jaeger-client-go     | v2.15.0                                  | Apache License 2.0                      |
| github.com/uber/jaeger-lib           | v1.5.0                                   | Apache License 2.0                      |
| github.com/urfave/cli                | ac249472b7de27a9e8990819566d9be95ab5b816 | MIT License                             |
| github.com/vishvananda/netlink       | c8c507c80ea28385caac72b682dd066e44943913 | Apache License 2.0                      |
| github.com/vishvananda/netns         | 86bef332bfc3b59b7624a600bd53009ce91a9829 | Apache License 2.0                      |
| golang.org/x/net                     | a8b9294777976932365dabb6640cf1468d95c70f | BSD-3-Clause                            |
| golang.org/x/oauth2                  | 5d9234df094ce600ff541158d1491aa10d078a47 | BSD 3-Clause "New" or "Revised" License |
| golang.org/x/sys                     | b016eb3dc98ea7f69ed55e8216b87187067ae621 | BSD-3-Clause                            |
| golang.org/x/text                    | v0.3.0                                   | BSD-3-Clause                            |
| google.golang.org/appengine          | v1.6.5                                   | Apache License 2.0                      |
| google.golang.org/genproto           | 5fe7a883aa19554f42890211544aa549836af7b7 | Apache License 2.0                      |
| google.golang.org/grpc               | d11072e7ca9811b1100b80ca0269ac831f06d024 | Apache License 2.0                      |
| gopkg.in/yaml.v2                     | v2.2.2                                   | Apache-2.0                              |
| k8s.io/klog                          | v2.2.0                                   | Apache License 2.0                      |
| k8s.io/kubernetes                    | v1.18.4                                  | Apache License 2.0                      |

**Table 11-15 Software Package Dependency Licensing Information for kata-shim 1.12.1**

| Package Name                     | Version                                  | License            |
|----------------------------------|------------------------------------------|--------------------|
| github.com/Azure/go-ansiterm     | d6e3b3328b783f23731bc4d058875b0371ff8109 | MIT License        |
| github.com/codahale/hdrhistogram | 3a0bb77429bd3a61596f5e8a3172445844342120 | MIT License        |
| github.com/davecgh/go-spew       | v1.1.0                                   | ISC License        |
| github.com/docker/docker         | bc183a0062c1283cfc47f42ec78501868629dd2b | Apache License 2.0 |

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| Package Name                                       | Version                                  | License                                 |
|----------------------------------------------------|------------------------------------------|-----------------------------------------|
| github.com/gogo/protobuf                           | 4cbf7e384e768b4e01799441fdf2a706a5635ae7 | BSD-3-Clause                            |
| github.com/golang/protobuf                         | 1e59b77b52bf8e4b449a57e6f79f21226d571845 | BSD 3-Clause "New" or "Revised" License |
| github.com/grpc-ecosystem/grpc-opentracing         | 8e809c8a86450a29b90dcc9efbf062d0fe6d9746 | BSD-3-Clause                            |
| github.com/hashicorp/yamux                         | cc6d2ea263b2471faabce371255777a365bf8306 | Mozilla Public License 2.0              |
| github.com/kata-containers/agent                   | 5bf8d4cc4614d0e0b3202f0a39d723195e341df8 | Apache License 2.0                      |
| github.com/konsorten/go-windows-terminal-sequences | v1.0.2                                   | MIT License                             |
| github.com/kr/pty                                  | v1.1.0                                   | MIT License                             |
| github.com/mdlayher/vsock                          | 7b7533a7ca4eba7dd23dab2de70e25ca6eef7e2  | MIT License                             |
| github.com/moby/moby                               | v1.13.1                                  | Apache License 2.0                      |
| github.com/opencontainers/runtime-spec             | a1b50f621a48ad13f8f696a162f684a241307db0 | Apache License 2.0                      |
| github.com/opentracing/opentracing-go              | v1.0.2                                   | Apache License 2.0                      |
| github.com/pkg/errors                              | v0.8.0                                   | BSD 2-Clause "Simplified" License       |
| github.com/pmezard/go-difflib                      | v1.0.0                                   | BSD-3-Clause                            |
| github.com/sirupsen/logrus                         | v1.4.2                                   | MIT License                             |
| github.com/stretchr/testify                        | v1.2.0                                   | MIT License                             |
| github.com/uber/jaeger-client-go                   | v2.15.0                                  | Apache License 2.0                      |
| github.com/uber/jaeger-lib                         | v1.5.0                                   | Apache License 2.0                      |
| golang.org/x/net                                   | a8b9294777976932365dabb6640cf1468d95c70f | BSD-3-Clause                            |
| golang.org/x/sys                                   | 810d7000345868fc619eb81f46307107118f4ae1 | BSD-3-Clause                            |
| golang.org/x/text                                  | e19ae1496984b1c655b8044a65c0300a3c878dd3 | BSD-3-Clause                            |
| google.golang.org/genproto                         | a8101f21cf983e773d0c1133ebc5424792003214 | Apache License 2.0                      |
| google.golang.org/grpc                             | d11072e7ca9811b1100b80ca0269ac831f06d024 | Apache License 2.0                      |



**Table 11-16 Software Package Dependency Licensing Information for kata-image 1.12.1**

| Package Name | Version | License                                                                 |
|--------------|---------|-------------------------------------------------------------------------|
| golang       | 1.12.17 | BSD                                                                     |
| yq           | 2.4.0   | MIT                                                                     |
| util-linux   | 2.23.2  | GPLv2 and GPLv2+ and LGPLv2+ and BSD with advertising and Public Domain |
| e2fsprogs    | 1.42.9  | GPLv2                                                                   |
| qemu-img     | 1.5.3   | GPLv2 and GPLv2+ and CC-BY                                              |
| parted       | 3.1     | GPLv3+                                                                  |

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```
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```
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```

```
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1) OvmfPkg Package  
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3) cat ./AppPkg/Applications/Python/Python-2.7.10/LICENSE
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```

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| Release        | Derived from | Year      | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|-------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI   | yes                 |

|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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### Licensing Information User Manual Oracle ZFS Storage ZS9-2, Release OS8.8.x

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- 3) ./BaseTools/Source/C/BrotliCompress/LICENSE (same as 2)
- 4) ./AppPkg/Applications/Python/Python-2.7.10/LICENSE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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|               |           |          |            |         |
|---------------|-----------|----------|------------|---------|
| 1.6           | 1.5.2     | 2000     | CNRI       | no      |
| 2.0           | 1.6       | 2000     | BeOpen.com | no      |
| 1.6.1         | 1.6       | 2001     | CNRI       | yes (2) |
| 2.1           | 2.0+1.6.1 | 2001     | PSF        | no      |
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF        | yes     |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF        | yes     |
| 2.1.2         | 2.1.1     | 2002     | PSF        | yes     |
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| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
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| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
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| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
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| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007. It is currently developed by a community of developers.

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Version 2.0

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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